TOSHIBA

FILE NO. 023-200520
SUPPLEMENT

SERVICE MANUAL

Plasma Color Television

42HPX95
50HPX95

– SUMMARY –

42HPX95/50HPX95 is the same as 42HP95/50HP95 except for the parts list on back of this sheet.
Use this service manual together with the original service manual of 42HP95/50HP95 (File No. 020-200517).

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DOCUMENT CREATED IN JAPAN, Sept., 2005

CHASSIS AND CABINET REPLACEMENT PARTS LIST

Location No.		Parts No.	Description
#1:[42HPX95]			
#2:[50HPX95]			
MISCELLANEOUS			
B205		23940528	PIECE, AV COVER ASSEMBLY 42HPX95
N100	#2	23969797	TAPE
PP22	#2	23748085	WASHER, 10X4.2XT=0.3
PC BOARD ASSEMBLIES			
U101		75001680	PC BOARD ASSY, PD2222C1 SIGNAL
U102		75001681	PC BOARD ASSY, PD2266E1 SEIN FPD WITH LAN
U105A	#1	75001682	PC BOARD ASSY, PD2220C1 TN/AV-AOUT
U105B	#1	75001683	PC BOARD ASSY, PD2220C2 FRONT-AV
U105C	#1	75001684	PC BOARD ASSY, PD2220C3 LED-RMT
U105D	#1	75001685	PC BOARD ASSY, PD2220C4 KEY-SW
ACCESSORIES			
A701A	#1	23015199	CARTON, CASE 42HPX95
	#2	23015279	CARTON, TOP CASE
⚠ Y101	#1	23566767	OWNERS MANUAL, ENGLISH/FRENCH 42HPX95
CABINET PARTS			
⚠ A201	#1	23533642	COVER, FRONT BEZEL ASSY 42HPX95
⚠	#2	23533639	COVER, FRONT COVER ASSY 50HPX95
A235	#2	23738074	SCREW, PP 5X16 SW+W SBN
A237	#2	23717250	SCREW, PP4X12+SW+W SBN
A238	#2	23717177	SCREW, PP5X12+SW+W SBN

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TOSHIBA

FILE NO. 020-200517

SERVICE MANUAL

Plasma Color Television

42HP95
50HP95

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DOCUMENT CREATED IN JAPAN, Sep., 2005

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⚠ SERVICE SAFETY PRECAUTIONS

- The caution items shown here describe major safety issues and should always be observed.
- The meanings of the various indications are as follows.

⚠ **WARNING**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.
⚠ **CAUTION**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users after the service operation is completed, could possibly be in danger of injury, or where there could be physical damage in the event of operational error.

* Physical damage means major damage to a home, furnishings and other possessions.

Examples of marks

SHOCK HAZARD	The △ indicates caution (including danger and warning). The actual meaning of this caution is indicated inside the △ or nearby illustrations or text. The example shown to the left indicates the danger of "electrical shock".
PROHIBIT DISASSEMBLING	The ⃠ indicates a forbidden action. The actual meaning of this caution is indicated inside the ⃠ or nearby illustrations or text. The example shown to the left indicates that disassembly is forbidden.
UNPULUG	The ● indicates a forced action (an action that must be performed). The actual meaning of this forced action is indicated by ● or nearby illustrations or text. The example shown to the left indicates that the power plug must be disconnected.

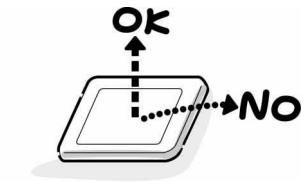
	⚠ WARNING
KEEP CHILDREN AWAY	• Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc.
UNPULUG	• Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock.
SHOCK HAZARD	• Depending on the model, use an insulation transformer or wear gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
USE SPECIFIED PARTS	• Always use the replacement parts specified for the particular model when making repairs. The parts used in products have the necessary safety characteristics such as inflammability, voltage resistance, etc.; therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is included in a circuit diagram or parts list.
CAUTION FOR WIRING	• Parts mounting and routing of the wiring should be the same as that used originally. For safety purposes, insulating materials such as tubing or tape is sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the original scheme.
CAUTION FOR ASSEMBLING / WIRING	• After a repair has been completed, reassemble all disassembled parts, and route and reconnect the wiring, in accordance with the original scheme. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
CHECK INSULATION RESISTANCE	• After completing the work, disconnect the power plug from the outlet, remove the antenna, turn on the power switch. Then, use a 500V insulation resistance meter to check the insulation resistance of the antenna terminal, other metallic parts and between the prongs of the power plug to make sure that the insulation resistance is 1M Ω or more. The set will require inspection and repair if the insulation resistance is below this value.
PROHIBIT REMODELING	• Never remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous

HANDLING THE LCD MODULE

Safety Precautions
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid. Also, never touch this fluid.
Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

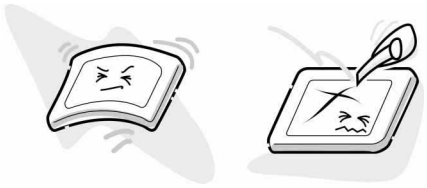
Precautions for Handling the LCD Module
The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

CAUTION	The metal edges of the LCD module are sharp, so use caution to avoid injury.

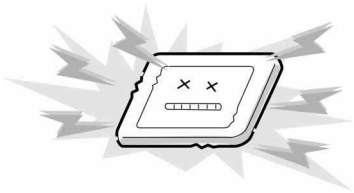


3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

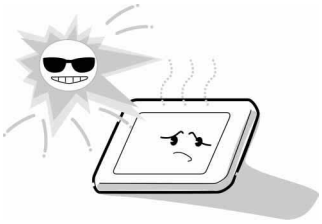
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

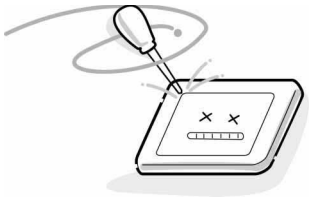


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

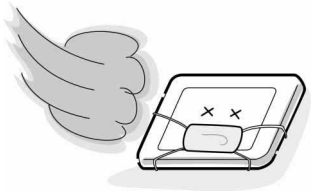


8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



SERVICE MODE

1. ENTERING SERVICE MODE

1) Press MUTE button twice on Remote Control.

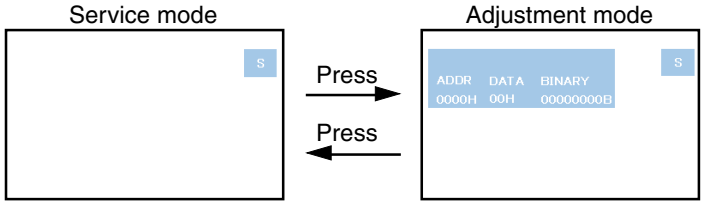
2) Press MUTE button again and keep pressing.

3) While pressing the MUTE button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on Remote Control.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Test signal selection :	TV/VIDEO button (on Remote)
Selection of the adjustment items :	Channel ▲ / ▼(on TV or Remote)
Change of the data value :	Volume ◀ / ▶ (on TV) or ▲ / ▼ (on Remote)
Adjustment menu mode ON/OFF :	MENU button (on Remote)
Initialization of the memory :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00” :	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“CNTX” selection :	4 button
“COLC” selection :	5 button ------Color thickness correction
“UVTT” selection :	6 button
Automatic A/D Adjustment(PC, Component) :	7 button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◀ / ▶ , ▲ / ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ **INITIALIZATION OF MEMORY DATA**

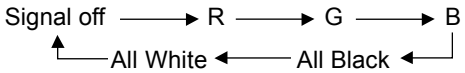
After replacing EEPROM IC, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of EEPROM IC has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto tune” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless EEPROM IC has been replaced.

7. TEST SIGNAL SELECTION

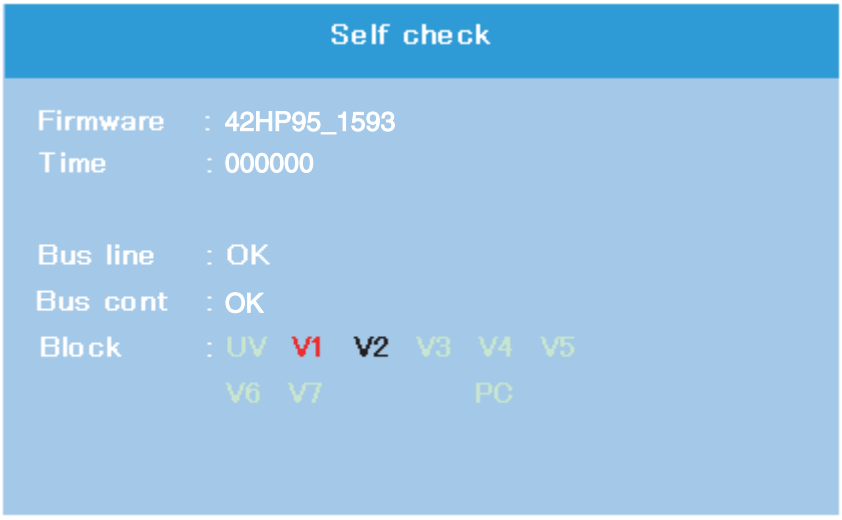
1) Every pressing of TV/VIDEO button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.



Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s is executed properly.
2) During diagnosis, the following displays are shown.



① Firmware :
Version information of microprocessor
In case of file name : 42HP95 and Version : 1593 indicates[42HP95_1593].

② Time : Total hour of turn the TV on. (Unit : H)

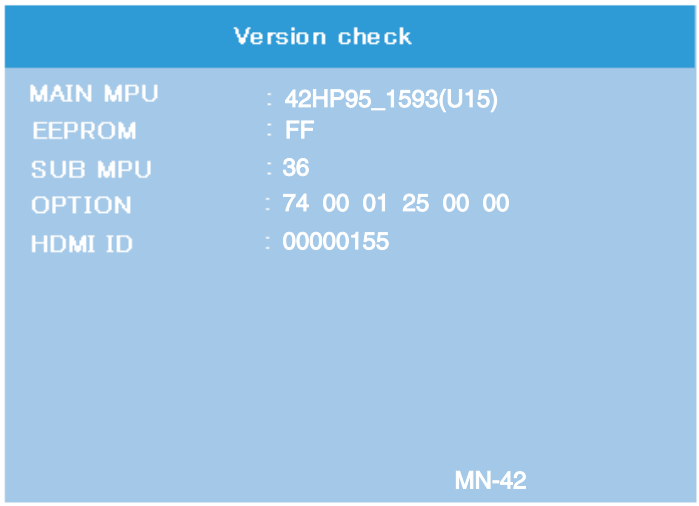
③ Bus line : --"OK" is normal
"SCL-GND"(Red indication) : SCL-GND short circuit
"SDA-GND"(Red indication) : SDA-GND short circuit
"SCL-SDA"(Red indication) : SCL-SDA short circuit

④ Bus cont : --- "OK" is normal.
NG is abnormal(Red indication).
When type name of semiconductor indicates.

⑤ Block
UV : TV reception mode
V1 : VIDEO 1 input mode
V2 : VIDEO 2 input mode
V3 : VIDEO 3 input mode
V4 : ColorStream HD 1
V5 : ColorStream HD 2
V6 : HDMI
PC : Personal Computer (PC)

9. VERSION CHECK MODE

1) Press “9” button twice on Remote Control during display of adjustment menu in the service mode. The version of main MPU will begin to check.
2) During Version Check, the following displays are shown.



① MAIN MPU :
Version information of microprocessor
In case of file name : 42HP95, Version 1593 for Code Program Version and (U15) for OSD Version indicates [42HP95_1593(U15)]

② EEPROM :
Version information of EEPROM : Display 1 byte data.

③ SUB MPU :
Version information of SUB MPU : Display 1 byte data.

④ OPTION :
Option information : Display six numbers of 1 byte data.

⑤ HDMI ID :
HDMI ID information : Display 4 byte data.

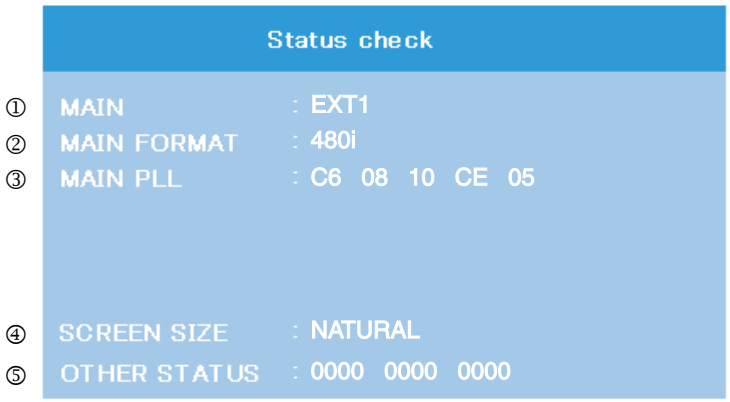
⑥ PDP Panel Vender information display
The following Panel Vender and screen size are displayed.

Panel Vender	Screen Size(Inch)
MN	-42
	-50

Example : MN-42 indicates that vender is MN and Screen Size is 42 inch.

10. STATUS CHECK MODE

1) Press “9” button thrice on Remote Control during display of adjustment menu in the service mode. The status of this model will begin to check.
2) During Status Check, the following displays are shown.



① MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

② MAIN FORMAT :
Display Video and PC format information

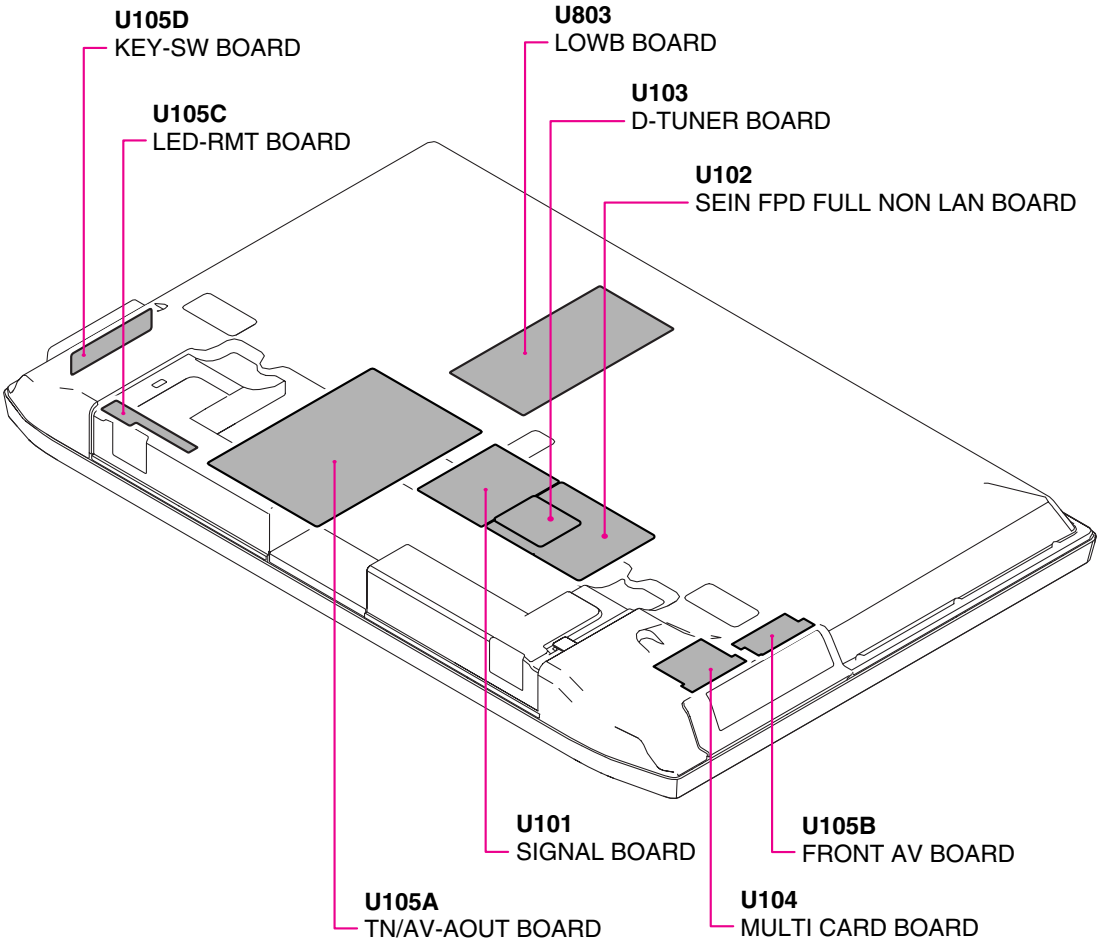
③ MAIN PLL :
Main PLL information : Display five numbers of 1 byte data.

④ SCREEN SIZE :
Display the screen size as follows.

Theater Wide 1
Theater Wide 2
Theater Wide 3
FULL
NATURAL

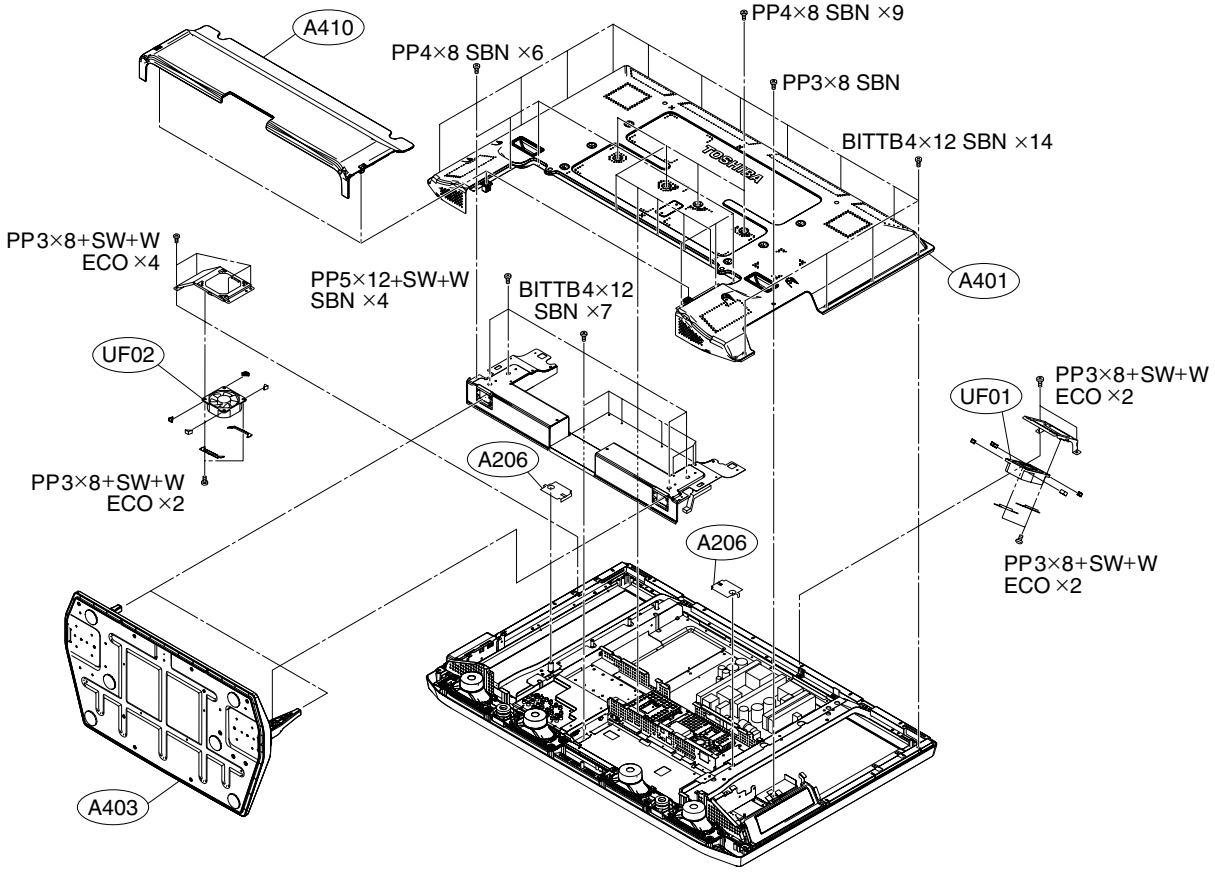
⑤ OTHER STATUS :
Other status information : Display three numbers of 2 byte data.

LAYOUT OF MAJOR BOARDS

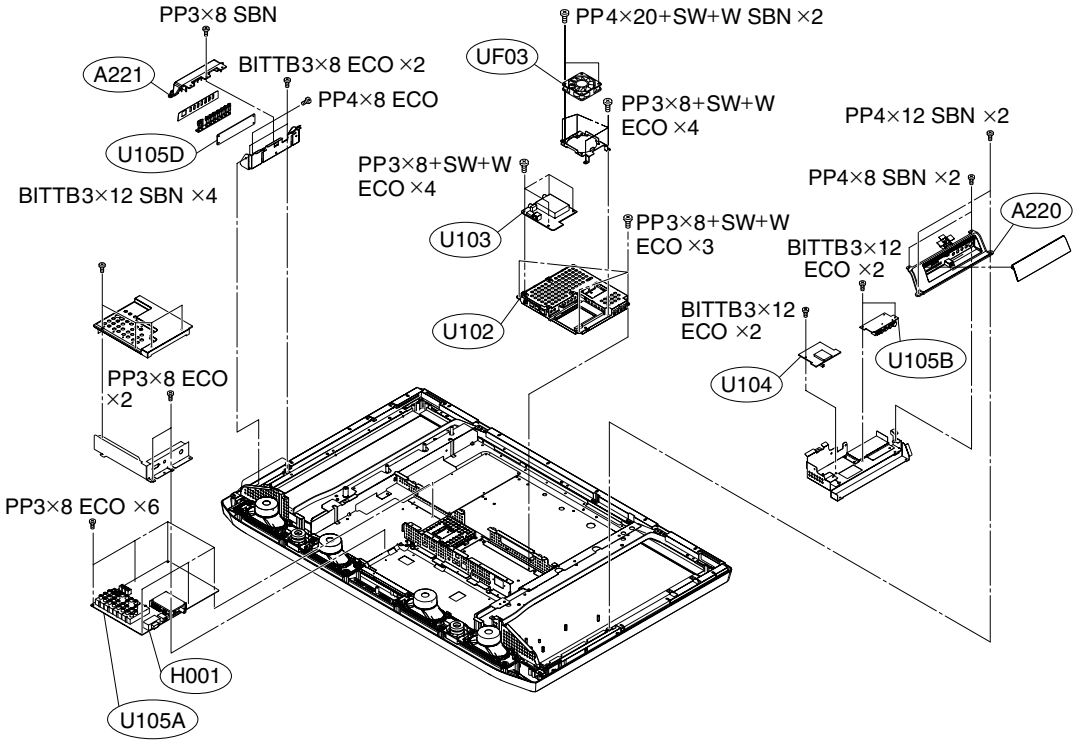


MECHANICAL DISASSEMBLY

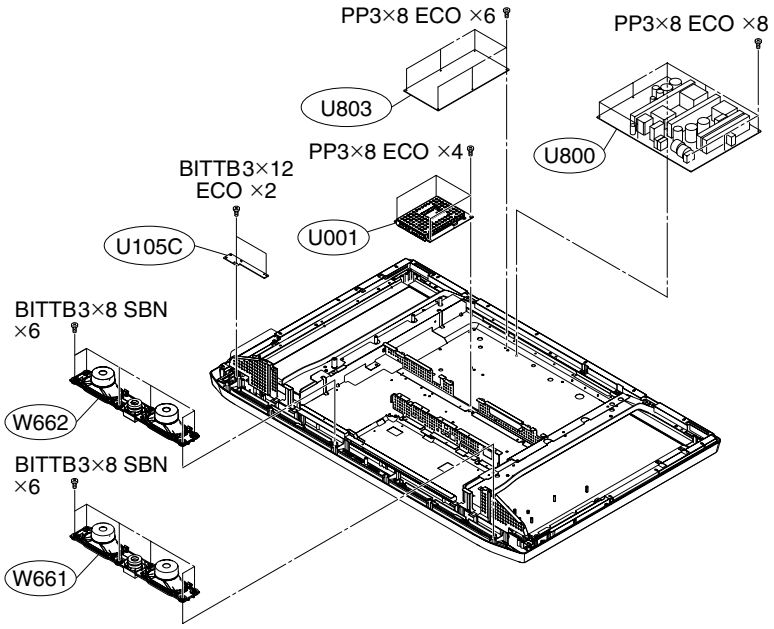
1. Remove the stand (foot) and back cover.



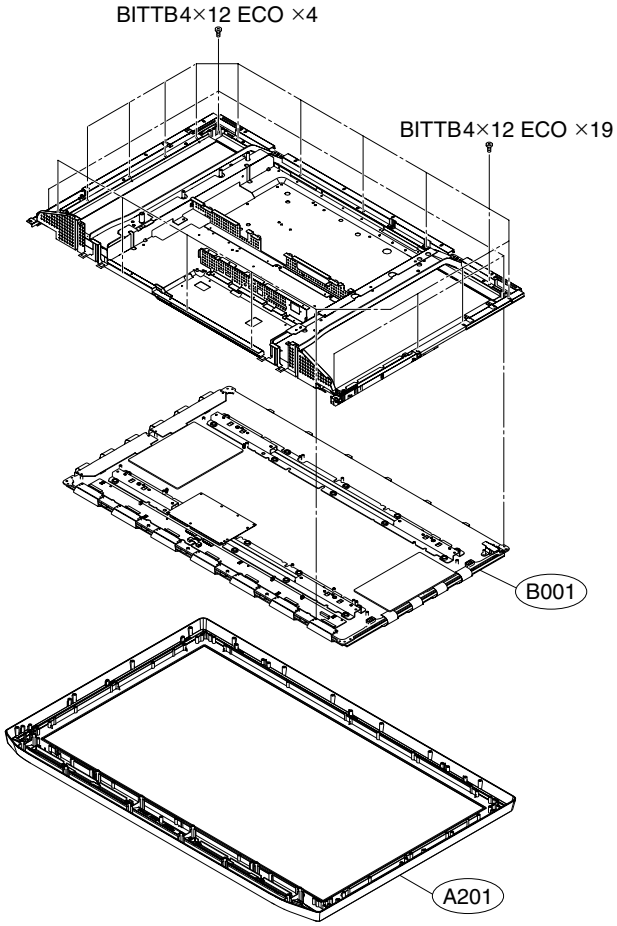
2. Remove the boards (MULTI CARD, TN/AV-AOUT, FRONT AV, KEY-SW,SEIN FPD FULL NON LAN, D-TUNER) and piece key ass'y.



3. Remove the boards (SIGNAL, LED-RMT, LOWB) and speaker.

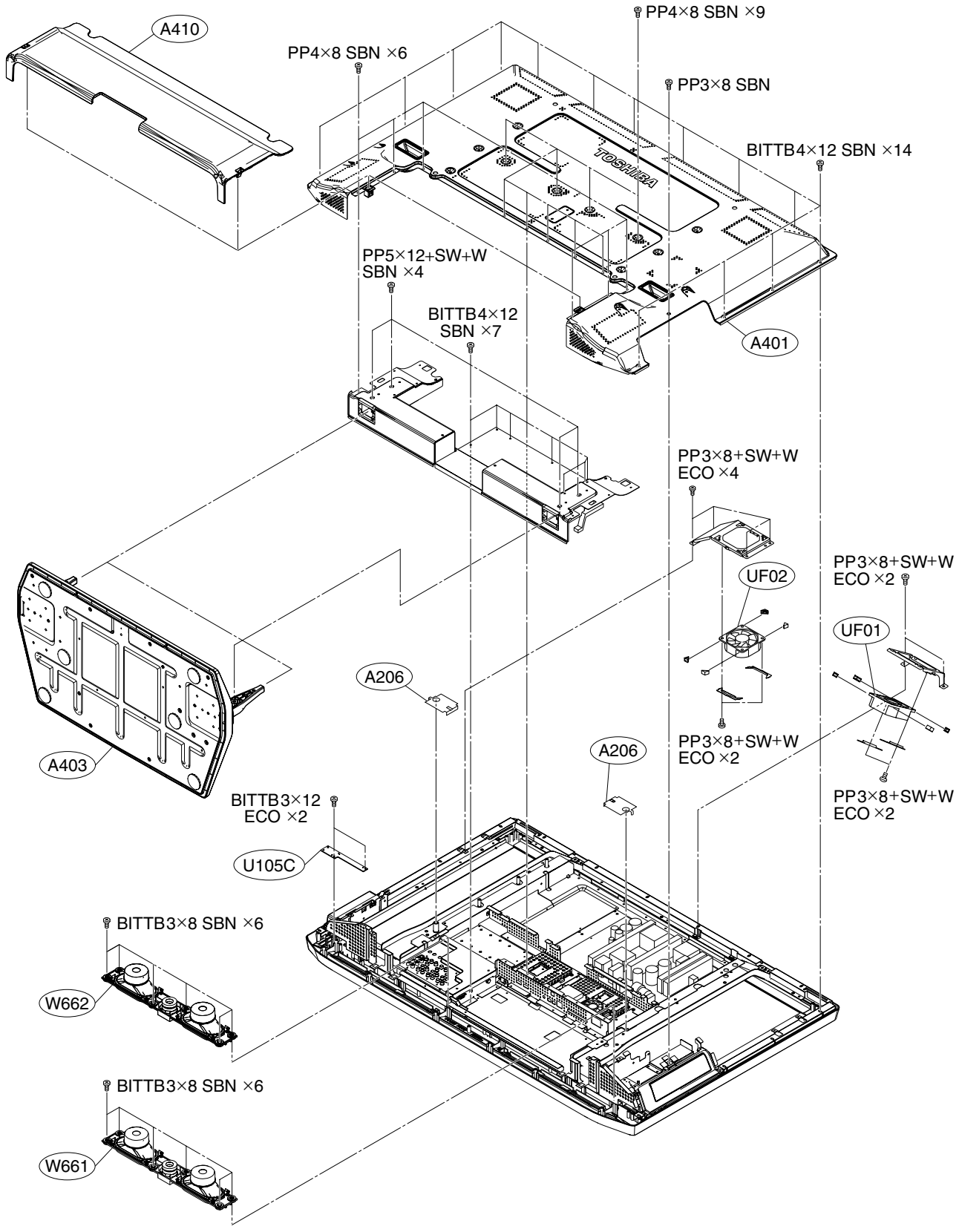


4. Remove the display.

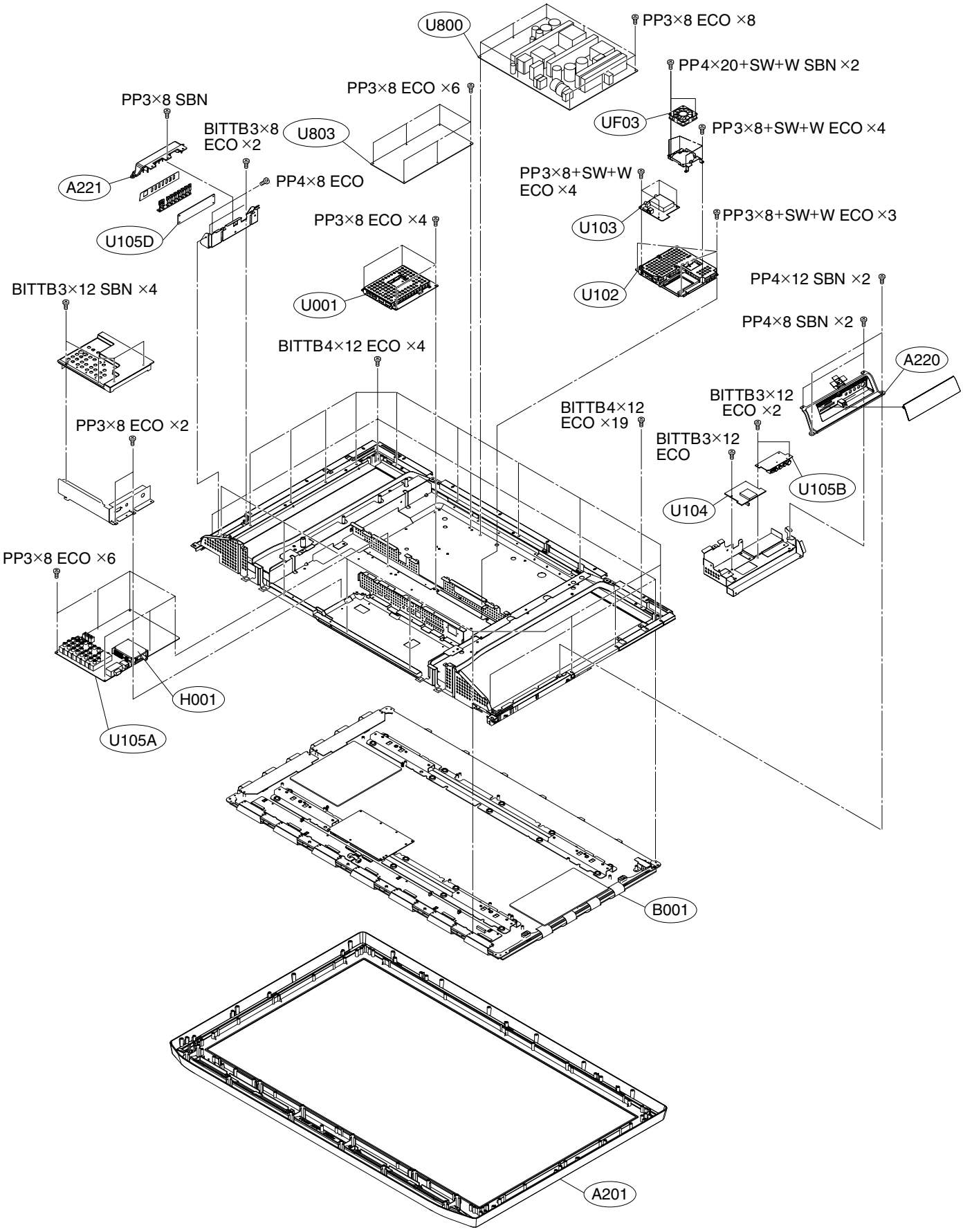


EXPLODED VIEWS

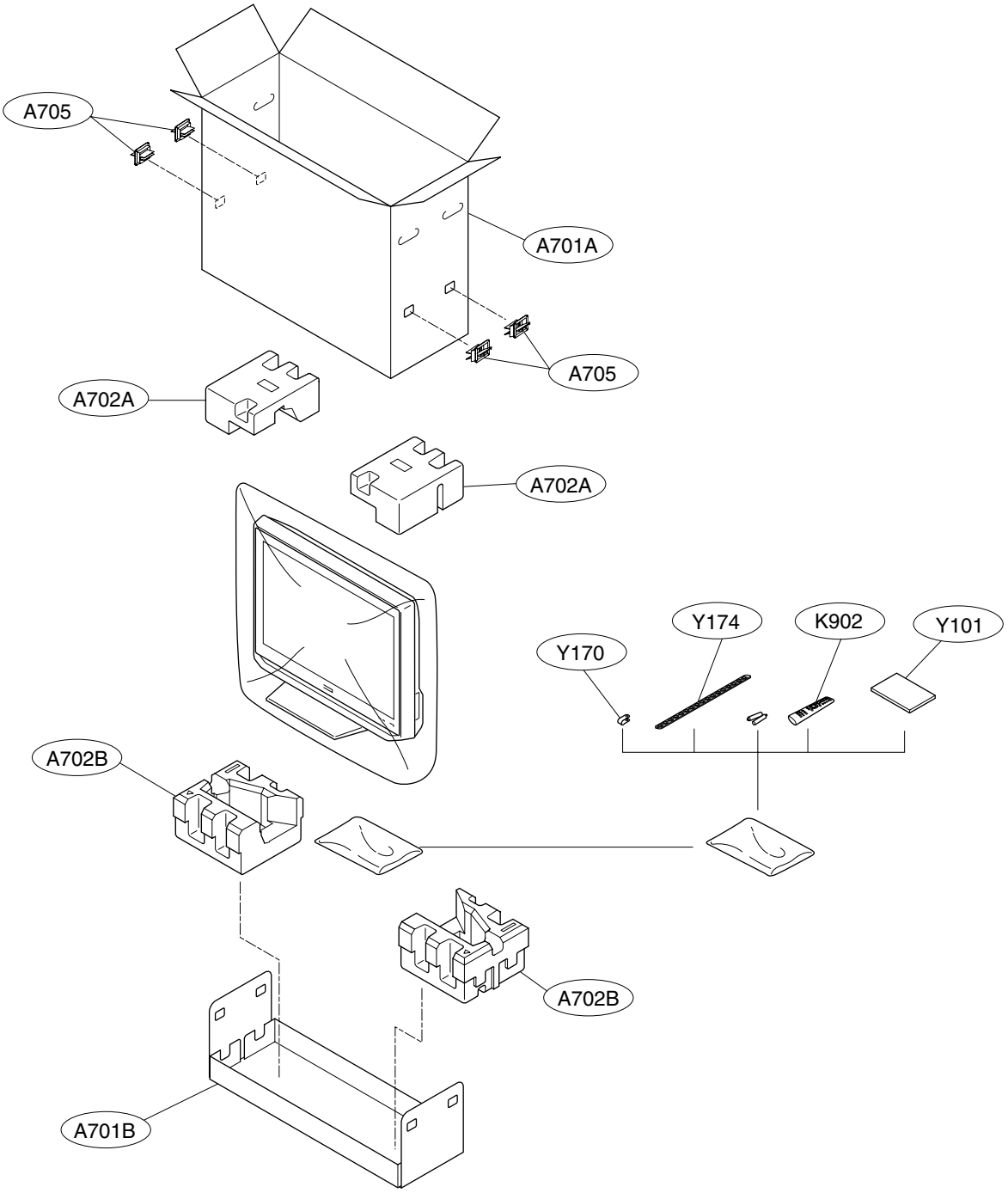
1. Chassis Block



2. Main Block


U800
PP3×8 ECO ×8
PP4×20+SW+W SBN ×2
PP3×8 ECO ×6
PP3×8 SBN
BITTB3×8
ECO ×2
U803
UF03
PP3×8+SW+W ECO ×4
A221
PP4×8 ECO
PP3×8+SW+W
ECO ×4
U105D
PP3×8 ECO ×4
U103
PP3×8+SW+W ECO ×3
U102
BITTB3×12 SBN ×4
U001
PP4×12 SBN ×2
PP4×8 SBN ×2
BITTB4×12 ECO ×4
A220
BITTB3×12
ECO ×2
BITTB4×12
ECO ×19
PP3×8 ECO ×2
BITTB3×12
ECO
U105B
U104
PP3×8 ECO ×6
H001
U105A
B001
A201

PACKING DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Model : 42HP95/50HP95

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
#1:[42HP95]		
#2:[50HP95]		
CAPACITORS		
C102	76073019	ELECTROLYTIC, 10V 470UF M 3A
C103	76109102	CERAMIC CHIP, 50V B 1000PF K
C104	76619143	ELECTROLYTIC CHIP, 50V 4.7UF M
C105	76073019	ELECTROLYTIC, 10V 470UF M 3A
C150	76073041	ELECTROLYTIC, 16V 470UF M 3A
C151	76109102	CERAMIC CHIP, 50V B 1000PF K
C152	76109102	CERAMIC CHIP, 50V B 1000PF K
C161	76109102	CERAMIC CHIP, 50V B 1000PF K
C162	76105101	CERAMIC CHIP, 50V CH 100PF J
C164	76092730	CERAMIC CHIP, 16V B 0.1UF K
C168	76109103	CERAMIC CHIP, 50V B 0.01UF K
C169	76109103	CERAMIC CHIP, 50V B 0.01UF K
C605	76109102	CERAMIC CHIP, 50V B 1000PF K
C606	76109102	CERAMIC CHIP, 50V B 1000PF K
C660	76669479	ELECTROLYTIC, 50V 4.7UF M
C661	76669479	ELECTROLYTIC, 50V 4.7UF M
C662	76109681	CERAMIC CHIP, 50V B 680PF K
C663	76109681	CERAMIC CHIP, 50V B 680PF K
C668	76109102	CERAMIC CHIP, 50V B 1000PF K
C669	76109102	CERAMIC CHIP, 50V B 1000PF K
C670	76669100	ELECTROLYTIC, 50V 10UF M
C671	76669100	ELECTROLYTIC, 50V 10UF M
C673	76619102	ELECTROLYTIC CHIP, 16V 47UF M
C674	76092731	CERAMIC CHIP, 16V B 1UF K
C677	76092731	CERAMIC CHIP, 16V B 1UF K
C678	76285104	CERAMIC CHIP, 50V B 0.1UF K
C679	76285104	CERAMIC CHIP, 50V B 0.1UF K
C680	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C681	76073073	ELECTROLYTIC, 35V 2200UF M 3A
C682	76073073	ELECTROLYTIC, 35V 2200UF M 3A
C684	76109103	CERAMIC CHIP, 50V B 0.01UF K
C685	76092538	CERAMIC CHIP, 10V F 1UF Z
C690	76664102	ELECTROLYTIC, 6.3V 1000UF M 3A
C691	76092463	CERAMIC CHIP, 16V B 0.22UF K
C692	76092463	CERAMIC CHIP, 16V B 0.22UF K
C1801	76285104	CERAMIC CHIP, 50V B 0.1UF K
C1802	76109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
C1803	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1804	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1805	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1806	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1807	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1808	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1809	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1810	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1811	76109103	CERAMIC CHIP, 50V B 0.01UF K
C1812	76109103	CERAMIC CHIP, 50V B 0.01UF K
CB01	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB02	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB05	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB38	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB82	76567474	PLASTIC FILM, 50V 0.47UF J
CB503	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB504	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CB505	76100103	CERAMIC CHIP, 50V F 0.01UF Z
CB506	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB507	76092730	CERAMIC CHIP, 16V B 0.1UF K
CB508	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB509	76619098	ELECTROLYTIC CHIP, 6.3V 100UF M
CB510	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
CB511	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC01	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC02	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC03	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC04	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC05	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC06	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC07	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A

Location No.	Parts No.	Description
CC08	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC09	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC10	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC11	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC12	76092538	CERAMIC CHIP, 10V F 1UF Z @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC13	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC14	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC15	76619100	ELECTROLYTIC CHIP, 16V 10UF M @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC16	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC17	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC18	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC19	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC20	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC21	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC22	76092538	CERAMIC CHIP, 10V F 1UF Z
CC24	76092538	CERAMIC CHIP, 10V F 1UF Z
CC25	76092538	CERAMIC CHIP, 10V F 1UF Z
CC26	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC27	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC28	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CC30	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC31	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC32	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC34	76092730	CERAMIC CHIP, 16V B 0.1UF K
CC36	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CC40	76092538	CERAMIC CHIP, 10V F 1UF Z @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC41	76092730	CERAMIC CHIP, 16V B 0.1UF K @U104
	76109102	CERAMIC CHIP, 50V B 1000PF K @U105A
CC42	76109103	CERAMIC CHIP, 50V B 0.01UF K
CE03	76539104	PLASTIC FILM, 50V 0.1UF J
CE05	76073090	ELECTROLYTIC, 50V 100UF M 3A
CE08	76073090	ELECTROLYTIC, 50V 100UF M 3A
CE10	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE11	76539474	PLASTIC FILM, 50V 0.47UF J
CE12	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE25	76668470	ELECTROLYTIC, 35V 47UF M 3A
CE30	76073189	ELECTROLYTIC, 35V 1000UF M
CE31	76073186	ELECTROLYTIC, 35V 470UF M
CE32	76073128	ELECTROLYTIC, 6.3V 1000UF M
CE60	76073186	ELECTROLYTIC, 35V 470UF M
CE61	76617028	ELECTROLYTIC, 16V 1200UF M
CE62	76073020	ELECTROLYTIC, 10V 1000UF M 3A
CE63	76539104	PLASTIC FILM, 50V 0.1UF J
CE64	76539104	PLASTIC FILM, 50V 0.1UF J
CE65	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE66	76539474	PLASTIC FILM, 50V 0.47UF J
CE67	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE70	76073189	ELECTROLYTIC, 35V 1000UF M
CE71	76073186	ELECTROLYTIC, 35V 470UF M
CE72	76073128	ELECTROLYTIC, 6.3V 1000UF M
CE85	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE86 #2	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE87 #2	76073090	ELECTROLYTIC, 50V 100UF M 3A
CH01	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CH02	76619100	ELECTROLYTIC CHIP, 16V 10UF M

Location No.	Parts No.	Description
CS10	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS11	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS12	76109473	CERAMIC CHIP, 25V B 0.047UF K
CS15	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS16	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS36	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS37	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS40	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS41	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS42	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS43	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS44	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS45	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS46	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS47	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS48	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS49	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS50	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS51	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS54	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS55	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS56	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS57	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CS64	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CS82	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS85	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS86	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS501	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS502	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS503	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS504	76105470	CERAMIC CHIP, 50V CH 47PF J
CS505	76105470	CERAMIC CHIP, 50V CH 47PF J
CV21	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV24	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV27	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV28	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV31	76105220	CERAMIC CHIP, 50V CH 22PF J
CV33	76092730	CERAMIC CHIP, 16V B 0.1UF K
CV34	76105270	CERAMIC CHIP, 50V CH 27PF J
CV35	76105330	CERAMIC CHIP, 50V CH 33PF J
CV38	76109102	CERAMIC CHIP, 50V B 1000PF K
CV39	76109102	CERAMIC CHIP, 50V B 1000PF K
CV67	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV68	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV69	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CV72	76794471	ELECTROLYTIC, 16V 470UF M
CV74	76666101	ELECTROLYTIC, 16V 100UF M 3A
CV76	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV121	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV122	76105101	CERAMIC CHIP, 50V CH 100PF J
CV267	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV270	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV273	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV282	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV286	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV287	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV289	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV291	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV292	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV293	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CV294	76109103	CERAMIC CHIP, 50V B 0.01UF K
CY650	76105101	CERAMIC CHIP, 50V CH 100PF J

Location No.	Parts No.	Description
RESISTORS		
R103	76011101	CHIP, 1/20W 100 OHM J
R104	76011103	CHIP, 1/20W 10K OHM J
R105	76011273	CHIP, 1/20W 27K OHM J
R107	76000445	CHIP JUMPER, 1608TYPE
R108	76000445	CHIP JUMPER, 1608TYPE
R110	76011682	CHIP, 1/20W 6.8K OHM J
R114	76000445	CHIP JUMPER, 1608TYPE
R161	76011102	CHIP, 1/20W 1K OHM J
R165	76011392	CHIP, 1/20W 3.9K OHM J
R166	76011472	CHIP, 1/20W 4.7K OHM J
R167	76011101	CHIP, 1/20W 100 OHM J
R168	76011101	CHIP, 1/20W 100 OHM J
R264	76871750	CHIP, 1/8W 75 OHM J
R265	76871750	CHIP, 1/8W 75 OHM J
R266	76871750	CHIP, 1/8W 75 OHM J
R286	76871750	CHIP, 1/8W 75 OHM J
R287	76871750	CHIP, 1/8W 75 OHM J
R288	76871750	CHIP, 1/8W 75 OHM J
R664	76011104	CHIP, 1/20W 100K OHM J
R665	76011104	CHIP, 1/20W 100K OHM J
R670	76011472	CHIP, 1/20W 4.7K OHM J
R671	76011472	CHIP, 1/20W 4.7K OHM J
R672	76011182	CHIP, 1/20W 1.8K OHM J
R673	76011182	CHIP, 1/20W 1.8K OHM J
R678	76871229	CHIP, 1/8W 2.2 OHM J
R679	76871229	CHIP, 1/8W 2.2 OHM J
R680	76011473	CHIP, 1/20W 47K OHM J
R681	76011473	CHIP, 1/20W 47K OHM J
R683	76011103	CHIP, 1/20W 10K OHM J
R684	76011104	CHIP, 1/20W 100K OHM J
R685	76011222	CHIP, 1/20W 2.2K OHM J
R686	76011102	CHIP, 1/20W 1K OHM J
R687	76871102	CHIP, 1/8W 1K OHM J
R688	76871102	CHIP, 1/8W 1K OHM J
R689	76871102	CHIP, 1/8W 1K OHM J
R690	76011473	CHIP, 1/20W 47K OHM J
R691	76011103	CHIP, 1/20W 10K OHM J
R692	76011223	CHIP, 1/20W 22K OHM J
R693	76871102	CHIP, 1/8W 1K OHM J
R694	76871102	CHIP, 1/8W 1K OHM J
R695	76871102	CHIP, 1/8W 1K OHM J
R4100	76011102	CHIP, 1/20W 1K OHM J
R4101	76011681	CHIP, 1/20W 680 OHM J
R4102	76011471	CHIP, 1/20W 470 OHM J
R4103	76011102	CHIP, 1/20W 1K OHM J
R4104	76011152	CHIP, 1/20W 1.5K OHM J
R4105	76011102	CHIP, 1/20W 1K OHM J
R4106	76011681	CHIP, 1/20W 680 OHM J
R4107	76011471	CHIP, 1/20W 470 OHM J
R4108	76011102	CHIP, 1/20W 1K OHM J
R4109	76011152	CHIP, 1/20W 1.5K OHM J
R4120	76000445	CHIP JUMPER, 1608TYPE
R4122	76000445	CHIP JUMPER, 1608TYPE
R6601	76011223	CHIP, 1/20W 22K OHM J
R6602	76011472	CHIP, 1/20W 4.7K OHM J
R6603	76011223	CHIP, 1/20W 22K OHM J
R6604	76011102	CHIP, 1/20W 1K OHM J
R6605	76011103	CHIP, 1/20W 10K OHM J
R6606	76011104	CHIP, 1/20W 100K OHM J
RA71	76011683	CHIP, 1/20W 68K OHM J
RA72	76011223	CHIP, 1/20W 22K OHM J
RA73	76011103	CHIP, 1/20W 10K OHM J
RA74	76000445	CHIP JUMPER, 1608TYPE
RA76	76011223	CHIP, 1/20W 22K OHM J
RA77	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
RA78	76000445	CHIP JUMPER, 1608TYPE
RA79	76000445	CHIP JUMPER, 1608TYPE
RB08	76011470	CHIP, 1/20W 47 OHM J
RB09	76011470	CHIP, 1/20W 47 OHM J
RB10	76011331	CHIP, 1/20W 330 OHM J
RB15	76011471	CHIP, 1/20W 470 OHM J
RB24	76000445	CHIP JUMPER, 1608TYPE
RB81	76011473	CHIP, 1/20W 47K OHM J
RB502	76011332	CHIP, 1/20W 3.3K OHM J
RB503	76011332	CHIP, 1/20W 3.3K OHM J
RB504	76011104	CHIP, 1/20W 100K OHM J
RB505	76011101	CHIP, 1/20W 100 OHM J
RB506	76872750	CHIP, 1/16W 75 OHM J
RB507	76872820	CHIP, 1/16W 82 OHM J
RB510	76011102	CHIP, 1/20W 1K OHM J
RB513	76011102	CHIP, 1/20W 1K OHM J
RB514	76011473	CHIP, 1/20W 47K OHM J
RB515	76011473	CHIP, 1/20W 47K OHM J
RB516	76011472	CHIP, 1/20W 4.7K OHM J
RB517	76011472	CHIP, 1/20W 4.7K OHM J
RB518	76011101	CHIP, 1/20W 100 OHM J
RB519	76011472	CHIP, 1/20W 4.7K OHM J
RB520	76011472	CHIP, 1/20W 4.7K OHM J
RB521	76011472	CHIP, 1/20W 4.7K OHM J
RB522	76011472	CHIP, 1/20W 4.7K OHM J
RB523	76011472	CHIP, 1/20W 4.7K OHM J
RB524	76011472	CHIP, 1/20W 4.7K OHM J
RB525	76011101	CHIP, 1/20W 100 OHM J
RB526	76011103	CHIP, 1/20W 10K OHM J
RB527	76011103	CHIP, 1/20W 10K OHM J
RB528	76011472	CHIP, 1/20W 4.7K OHM J
RB529	76011472	CHIP, 1/20W 4.7K OHM J
RB554	76011471	CHIP, 1/20W 470 OHM J
RB555	76011103	CHIP, 1/20W 10K OHM J
RB556	76011101	CHIP, 1/20W 100 OHM J
RB557	76011103	CHIP, 1/20W 10K OHM J
RB562	76011104	CHIP, 1/20W 100K OHM J
RB563	76872750	CHIP, 1/16W 75 OHM J
RB564	76872820	CHIP, 1/16W 82 OHM J
RB565	76011101	CHIP, 1/20W 100 OHM J
RB574	76011101	CHIP, 1/20W 100 OHM J
RC01	76011223	CHIP, 1/20W 22K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC02	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC03	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC04	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC05	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC06	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC07	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC08	76011220	CHIP, 1/20W 22 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC09	76011270	CHIP, 1/20W 27 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC10	76011270	CHIP, 1/20W 27 OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC11	76011334	CHIP, 1/20W 330K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC12	76011103	CHIP, 1/20W 10K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC13	76000824	CHIP JUMPER, 2125TYPE

Location No.	Parts No.	Description
RC14	76000824	CHIP JUMPER, 2125TYPE
RC15	76000824	CHIP JUMPER, 2125TYPE
RC16	76011103	CHIP, 1/20W 10K OHM J
RC17	76000824	CHIP JUMPER, 2125TYPE
RC18	76000824	CHIP JUMPER, 2125TYPE
RC19	76000824	CHIP JUMPER, 2125TYPE
RC20	76000824	CHIP JUMPER, 2125TYPE
RC21	76011103	CHIP, 1/20W 10K OHM J
RC22	76011103	CHIP, 1/20W 10K OHM J
RC23	76011103	CHIP, 1/20W 10K OHM J
RC24	76011103	CHIP, 1/20W 10K OHM J
RC25	76011103	CHIP, 1/20W 10K OHM J
RC26	76011103	CHIP, 1/20W 10K OHM J
RC27	76011103	CHIP, 1/20W 10K OHM J
RC28	76011103	CHIP, 1/20W 10K OHM J
RC32	76011331	CHIP, 1/20W 330 OHM J
RC33	76011103	CHIP, 1/20W 10K OHM J
RC34	76011331	CHIP, 1/20W 330 OHM J
RC35	76011103	CHIP, 1/20W 10K OHM J
RC36	76011331	CHIP, 1/20W 330 OHM J
RC37	76011103	CHIP, 1/20W 10K OHM J
RC38	76011331	CHIP, 1/20W 330 OHM J
RC39	76011103	CHIP, 1/20W 10K OHM J
RC40	76011102	CHIP, 1/20W 1K OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC41	76011105	CHIP, 1/20W 1M OHM J @U104
	76011101	CHIP, 1/20W 100 OHM J @U105A
RC49	76011103	CHIP, 1/20W 10K OHM J
RC50	76011123	CHIP, 1/20W 12K OHM J
RC51	76011103	CHIP, 1/20W 10K OHM J
RC52	76011103	CHIP, 1/20W 10K OHM J
RC53	76011103	CHIP, 1/20W 10K OHM J
RC54	76011220	CHIP, 1/20W 22 OHM J
RC55	76011103	CHIP, 1/20W 10K OHM J
RC61	76011564	CHIP, 1/20W 560K OHM J
RC62	76011103	CHIP, 1/20W 10K OHM J
RE01	76366153	CARBON FILM, 1/6W 15K OHM J
RE02	76366473	CARBON FILM, 1/6W 47K OHM J
RE03	76366153	CARBON FILM, 1/6W 15K OHM J
RE04	76366222	CARBON FILM, 1/6W 2.2K OHM J
RE05	76366392	CARBON FILM, 1/6W 3.9K OHM J
RE06	76366473	CARBON FILM, 1/6W 47K OHM J
RE07	76366392	CARBON FILM, 1/6W 3.9K OHM J
RE08	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE09	76366473	CARBON FILM, 1/6W 47K OHM J
RE10	76367180	CARBON FILM, 1/6W 18 OHM G
RE11	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE12	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE13	76366102	CARBON FILM, 1/6W 1K OHM J
RE14 #2	76366392	CARBON FILM, 1/6W 3.9K OHM J
RE15	76366182	CARBON FILM, 1/6W 1.8K OHM J
RE16	76366473	CARBON FILM, 1/6W 47K OHM J
RE17	76366103	CARBON FILM, 1/6W 10K OHM J
RE18	76366153	CARBON FILM, 1/6W 15K OHM J
RE19	76366473	CARBON FILM, 1/6W 47K OHM J
RE26	76366473	CARBON FILM, 1/6W 47K OHM J
RE27	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
RE28	76552332	OXIDE METAL FILM, 1/2W 3.3K OHM J
RE29	76366103	CARBON FILM, 1/6W 10K OHM J
RE30	76366154	CARBON FILM, 1/6W 150K OHM J
RE33	76366102	CARBON FILM, 1/6W 1K OHM J
RE34	76366102	CARBON FILM, 1/6W 1K OHM J
RE60	76000142	METAL FILM, 1/4W 240 OHM F
RE61	76000360	METAL FILM, 1/4W 1.2K OHM F
RE63	76366102	CARBON FILM, 1/6W 1K OHM J
RE65	76367620	CARBON FILM 1/6W 62 G

Location No.	Parts No.	Description
RE66	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE70	76366184	CARBON FILM, 1/6W 18OK OHM J
RE73	76366102	CARBON FILM, 1/6W 1K OHM J
RE74	76366102	CARBON FILM, 1/6W 1K OHM J
RE85	76552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
RE86	76366103	CARBON FILM, 1/6W 10K OHM J
RE87 #2	76552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
RH04 #1	76000445	CHIP JUMPER, 1608TYPE
RH05 #1	76000445	CHIP JUMPER, 1608TYPE
RH06	76011101	CHIP, 1/20W 100 OHM J
RR01	76871750	CHIP, 1/8W 75 OHM J
RR02	76871750	CHIP, 1/8W 75 OHM J
RR03	76871750	CHIP, 1/8W 75 OHM J
RR04	76011330	CHIP, 1/20W 33 OHM J
RR05	76011330	CHIP, 1/20W 33 OHM J
RR06	76011330	CHIP, 1/20W 33 OHM J
RS16	76011473	CHIP, 1/20W 47K OHM J
RS17	76011473	CHIP, 1/20W 47K OHM J
RS18	76011103	CHIP, 1/20W 10K OHM J
RS19	76011104	CHIP, 1/20W 100K OHM J
RS20	76011104	CHIP, 1/20W 100K OHM J
RS25	76011101	CHIP, 1/20W 100 OHM J
RS26	76011101	CHIP, 1/20W 100 OHM J
RS27	76011222	CHIP, 1/20W 2.2K OHM J
RS28	76011222	CHIP, 1/20W 2.2K OHM J
RS29	76011102	CHIP, 1/20W 1K OHM J
RS30	76011102	CHIP, 1/20W 1K OHM J
RS31	76011104	CHIP, 1/20W 100K OHM J
RS32	76011104	CHIP, 1/20W 100K OHM J
RS33	76011473	CHIP, 1/20W 47K OHM J
RS34	76011473	CHIP, 1/20W 47K OHM J
RS35	76011104	CHIP, 1/20W 100K OHM J
RS36	76011472	CHIP, 1/20W 4.7K OHM J
RS37	76011472	CHIP, 1/20W 4.7K OHM J
RS40	76011472	CHIP, 1/20W 4.7K OHM J
RS41	76011472	CHIP, 1/20W 4.7K OHM J
RS42	76011472	CHIP, 1/20W 4.7K OHM J
RS43	76011472	CHIP, 1/20W 4.7K OHM J
RS44	76011472	CHIP, 1/20W 4.7K OHM J
RS45	76011472	CHIP, 1/20W 4.7K OHM J
RS46	76011472	CHIP, 1/20W 4.7K OHM J
RS47	76011472	CHIP, 1/20W 4.7K OHM J
RS48	76011472	CHIP, 1/20W 4.7K OHM J
RS49	76011472	CHIP, 1/20W 4.7K OHM J
RS50	76011472	CHIP, 1/20W 4.7K OHM J
RS51	76011472	CHIP, 1/20W 4.7K OHM J
RS54	76011682	CHIP, 1/20W 6.8K OHM J
RS55	76011472	CHIP, 1/20W 4.7K OHM J
RS56	76011472	CHIP, 1/20W 4.7K OHM J
RS58	76011101	CHIP, 1/20W 100 OHM J
RS59	76011101	CHIP, 1/20W 100 OHM J
RS60	76011101	CHIP, 1/20W 100 OHM J
RS61	76011101	CHIP, 1/20W 100 OHM J
RS64	76011682	CHIP, 1/20W 6.8K OHM J
RS65	76011182	CHIP, 1/20W 1.8K OHM J
RS66	76011100	CHIP, 1/20W 10 OHM J
RS67	76011101	CHIP, 1/20W 100 OHM J
RS68	76011101	CHIP, 1/20W 100 OHM J
RS78	76011102	CHIP, 1/20W 1K OHM J
RS81	76011102	CHIP, 1/20W 1K OHM J
RS82	76011682	CHIP, 1/20W 6.8K OHM J
RS85	76011472	CHIP, 1/20W 4.7K OHM J
RS86	76011472	CHIP, 1/20W 4.7K OHM J
RS87	76011101	CHIP, 1/20W 100 OHM J
RS88	76011101	CHIP, 1/20W 100 OHM J
RS500	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
RS501	76011153	CHIP, 1/2OW 15K OHM J
RS504	76011153	CHIP, 1/2OW 15K OHM J
RS505	76011103	CHIP, 1/20W 10K OHM J
RS516	76011101	CHIP, 1/20W 100 OHM J
RS517	76011101	CHIP, 1/20W 100 OHM J
RV30	76011222	CHIP, 1/20W 2.2K OHM J
RV31	76011391	CHIP, 1/20W 390 OHM J
RV32	76011331	CHIP, 1/20W 330 OHM J
RV35	76871750	CHIP, 1/8W 75 OHM J
RV36	76871750	CHIP, 1/8W 75 OHM J
RV40	76871750	CHIP, 1/8W 75 OHM J
RV41	76000445	CHIP JUMPER, 1608TYPE
RV42	76000445	CHIP JUMPER, 1608TYPE
RV43	76000445	CHIP JUMPER, 1608TYPE
RV44	76000445	CHIP JUMPER, 1608TYPE
RV45	76011750	CHIP, 1/20W 75 OHM J
RV46	76011750	CHIP, 1/20W 75 OHM J
RV50	76011123	CHIP, 1/20W 12K OHM J
RV51	76000445	CHIP JUMPER, 1608TYPE
RV52	76000445	CHIP JUMPER, 1608TYPE
RV64	76011123	CHIP, 1/20W 12K OHM J
RV76	76011750	CHIP, 1/20W 75 OHM J
RV78	76011123	CHIP, 1/20W 12K OHM J
RV121	76872750	CHIP, 1/16W 75 OHM J
RV122	76872750	CHIP, 1/16W 75 OHM J
RV123	76872750	CHIP, 1/16W 75 OHM J
RV129	76011101	CHIP, 1/20W 100 OHM J
RV287	76000445	CHIP JUMPER, 1608TYPE
RV288	76000445	CHIP JUMPER, 1608TYPE
RV289	76000445	CHIP JUMPER, 1608TYPE
RV290	76000445	CHIP JUMPER, 1608TYPE
RV291	76000445	CHIP JUMPER, 1608TYPE
RV292	76000445	CHIP JUMPER, 1608TYPE
RV306	76011473	CHIP, 1/20W 47K OHM J
RV330	76871750	CHIP, 1/8W 75 OHM J
RV331	76011101	CHIP, 1/20W 100 OHM J
RV332	76011101	CHIP, 1/20W 100 OHM J
RV340	76871750	CHIP, 1/8W 75 OHM J
RV370	76871750	CHIP, 1/8W 75 OHM J
RV376	76000445	CHIP JUMPER, 1608TYPE
RV377	76000445	CHIP JUMPER, 1608TYPE
RV414	76011222	CHIP, 1/20W 2.2K OHM J
RV415	76011222	CHIP, 1/20W 2.2K OHM J
RV416	76011222	CHIP, 1/20W 2.2K OHM J

COIL & TRANSFORMERS

L101	23248398	COIL, CHOKE, TLN3278D
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L105	23277002	FERRITE CORE, ACM3225-102-2PT100
L151	23103828	INDUCTOR, BEAD, TEM2121M
L152	23103828	INDUCTOR, BEAD, TEM2121M
LB19	23103828	INDUCTOR, BEAD, TEM2121M
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103887	INDUCTOR, CHIP BEAD, TEM2130AM @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC03	23103271	FILTER, EMI 2012 201OHM 0.35A TEM2033AD @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC04	23103271	FILTER, EMI 2012 201OHM 0.35A TEM2033AD @U104
	23103828	INDUCTOR, BEAD, TEM2121M @U105A
LC05	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LC06	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LE10	23289980	COIL, PEAKING, TRF4220AZ
LE30	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE31	23248386	COIL, CHOKE 9X11H 2.0MMH 4.0A TLN3481AA
LE60	23248456	COIL, CHOKE, TLN3540AH

Location No.	Parts No.	Description
LE61	23289980	COIL, PEAKING, TRF4220AZ
LE62	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE70	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
LE71	23248386	COIL, CHOKE 9X11H 2.0MMH 4.0A TLN3481AA
LV28	23277002	FERRITE CORE, ACM3225-102-2PT100
LV29	23246654	COIL, CHIP, TRF4220CG
LV31	23246662	COIL, CHIP, TRF4100CN
LV120	23277002	FERRITE CORE, ACM3225-102-2PT100
LV121	23277002	FERRITE CORE, ACM3225-102-2PT100
LV122	23277002	FERRITE CORE, ACM3225-102-2PT100
LV200	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV201	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV202	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV203	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV204	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV205	23103272	FILTER, EMI 2012 361OHM 0.22A TEM2034AD
LV246	23277002	FERRITE CORE, ACM3225-102-2PT100
LV247	23246662	COIL, CHIP, TRF4100CN
LV248	23277002	FERRITE CORE, ACM3225-102-2PT100
LV249	23277002	FERRITE CORE, ACM3225-102-2PT100
LV284	23277002	FERRITE CORE, ACM3225-102-2PT100

SEMICONDUCTORS

Q101	23205506	TRANSISTOR, 2SC4081 Q
Q161	23205506	TRANSISTOR, 2SC4081 Q
Q660	23205506	TRANSISTOR, 2SC4081 Q
Q661	23205506	TRANSISTOR, 2SC4081 Q
Q663	23205506	TRANSISTOR, 2SC4081 Q
Q664	23205506	TRANSISTOR, 2SC4081 Q
Q665	23205325	TRANSISTOR, RN2404(F)
Q670	23085039	IC, TA8246AHQ
Q671	23205302	TRANSISTOR, 2SC3326-B(F)
Q672	23205302	TRANSISTOR, 2SC3326-B(F)
Q673	23205443	TRANSISTOR, 2SA1162-Y(F)
Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
QB04	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QB07	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QB80	23085600	IC, PST9129
QB501	23085951	IC, BLASTER IC S3C80F9BKZ-SO77
QB502	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB503	23205506	TRANSISTOR, 2SC4081 Q
QB504	23205506	TRANSISTOR, 2SC4081 Q
QB505	23205506	TRANSISTOR, 2SC4081 Q
QB508	23205307	TRANSISTOR, 2SA562TM-Y(F)
QB516	23009976	IC, BH33FB1WG-TR
QC01	23085879	IC, USB2224-NU-05 USB2224-NU-05
QC02	23085121	IC, TC7SH04FU(TE85L,F)
QC03	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC04	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC05	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC06	23205578	TRANSISTOR, RTQ035P02 RTQ035P02
QC07	23085774	IC, REG PQ033EZ01ZPH PQ033EZ01ZPH
QE01	23205313	TRANSISTOR, 2SC1815-Y(F)
QE02	23205313	TRANSISTOR, 2SC1815-Y(F)
QE03	23205315	TRANSISTOR, RN1206(F)
QE04	23205313	TRANSISTOR, 2SC1815-Y(F)
QE10	23135077	IC, SI-3090CA
QE11	23205315	TRANSISTOR, RN1206(F)
QE25	23205340	TRANSISTOR, 2SA1020-Y(F)
QE26	23205313	TRANSISTOR, 2SC1815-Y(F)
QE30	23135084	IC, MPD6S011S
QE60	23085381	IC, SI-8050SS
QE61	23205315	TRANSISTOR, RN1206(F)

Location No.		Parts No.	Description
QE65		23135076	IC, SI-3050C
QE66		23205315	TRANSISTOR,RN1206(F)
QE70		23135084	IC, MPD6S011S
QE71		23205324	TRANSISTOR,RN2004(F)
QE85		23205339	TRANSISTOR,2SC2655-Y(F)
QE86	#2	23205339	TRANSISTOR,2SC2655-Y(F)
QH01		23085253	IC, SN74CB3Q3306APWR
QS01		23009916	IC, MM1631AJBE
QS03		23205302	TRANSISTOR,2SC3326-B(F)
QS04		23205302	TRANSISTOR,2SC3326-B(F)
QS05		23205325	TRANSISTOR,RN2404(F)
QS08		23205506	TRANSISTOR, 2SC4081 Q
QS09		23205506	TRANSISTOR, 2SC4081 Q
QS10		23205302	TRANSISTOR,2SC3326-B(F)
QS11		23205302	TRANSISTOR,2SC3326-B(F)
QS19		23205506	TRANSISTOR, 2SC4081 Q
QS102		23085576	IC, OP AMP, BA4558F
QV16		23085806	IC, 3 IN 1 OUT 75OHM DRIVER MM1228XFBE
QV18		23205330	TRANSISTOR,RN1403(F)
QV20		23085393	IC, MM1502XN
QV21		23205507	TRANSISTOR, 2SA1576A Q
QV22		23205329	TRANSISTOR,RN1404(F)
QV23		23205329	TRANSISTOR,RN1404(F)
QV282		23085352	IC, M52055FP
QV283		23205329	TRANSISTOR,RN1404(F)
D607		23357802	DIODE, ZENER, MA8330-M
D670		23362140	DIODE, KDS160-RTK
D671		23362140	DIODE, KDS160-RTK
D674		23362140	DIODE, KDS160-RTK
D675		23362140	DIODE, KDS160-RTK
D676		23362140	DIODE, KDS160-RTK
D678		23362140	DIODE, KDS160-RTK
D679		23362140	DIODE, KDS160-RTK
D681		23362140	DIODE, KDS160-RTK
DB01		23358606	DIODE, LED RED, SLR-56VC3FPQ
DB04		23358605	DIODE, LED GREEN, SLR-56MC3FPQR
DB20		23357406	DIODE, ZENER, UDZS5.6B
DB22		23357703	DIODE, 1SS355
DB23		23357703	DIODE, 1SS355
DB501		23357505	DIODE, VRM=80V IF=100MA SMINI2 MA2J11100L
DB502		23357765	DIODE, ZENER, MA8100-M
DB503		23357765	DIODE, ZENER, MA8100-M
DB504		23357505	DIODE, VRM=80V IF=100MA SMINI2 MA2J11100L
DC01		23362231	DIODE, NNCD6.8MG-T1
DC02		23362231	DIODE, NNCD6.8MG-T1
DC03		23362231	DIODE, NNCD6.8MG-T1
DC04		23362231	DIODE, NNCD6.8MG-T1
DC05		23362194	DIODE, HIGH SPEED SWITCHING 1SS193(TE85L,F)
DE01		23357706	DIODE, AK04
DE02		23357706	DIODE, AK04
DE03		23357823	DIODE, ZENER, MTZJ3.6A
DE04		23357821	DIODE, ZENER, MTZJ3.3A
DE05		23357499	DIODE, ERB12-01
DE06		23357697	DIODE, 1SS133
DE07		23357821	DIODE, ZENER, MTZJ3.3A
DE08		23357499	DIODE, ERB12-01
DE09		23357697	DIODE, 1SS133
DE10		23357697	DIODE, 1SS133
DE14	#2	23357697	DIODE, 1SS133
DE31		23357697	DIODE, 1SS133
DE32		23357829	DIODE, ZENER, MTZJ4.3C
DE60		23357810	DIODE, FMB-G14L
DE61		23357697	DIODE, 1SS133
DE62		23357845	DIODE, ZENER, MTZJ7.5B
DE71		23357697	DIODE, 1SS133
DE72		23357829	DIODE, ZENER, MTZJ4.3C

Location No.		Parts No.	Description
DE74		23357697	DIODE, 1SS133
DE85		23357861	DIODE, ZENER, MTZJ11A
DE86		23357697	DIODE, 1SS133
DE87	#2	23357861	DIODE, ZENER, MTZJ11A
DE88	#2	23357697	DIODE, 1SS133
DE89	#2	23357499	DIODE, ERB12-01
DE99		23357840	DIODE, ZENER, MTZJ6.2B
DR01		23357765	DIODE, ZENER, MA8100-M
DR02		23357765	DIODE, ZENER, MA8100-M
DR03		23357765	DIODE, ZENER, MA8100-M
DV120		23357751	DIODE, ZENER, MA8068-M

MISCELLANEOUS

⚠ B001	#1	23301662	DISPLAY, J-MD42HM8BSNJ
⚠	#2	23301665	DISPLAY, J-MD50HM8BSNJ
B001A	#1	23405526	OPTICAL FILTER, PDP42V T47 SSC PM00QZ001
	#2	23405527	OPTICAL FILTER, AGC 50XGA PDF-69Q6H
B205		23940501	PIECE, AV COVER ASSEMBLY 42HP95
B213		23717219	SCREW, PP3X8+SW+W SBN
⚠ B214	#1	23717214	SCREW, BITTB3X12SBN
B221		23717225	SCREW, PP4X20+SW+W SBN
B222		23717306	SCREW WITH WASHER
E871B		23960136	ADHESIVE, SILICONE, TSE3843-W
FE20		23144373	FUSE, RADIAL LEAD SUB-MINIATUR 250V 630MA
GJ413		76000445	CHIP JUMPER, 1608TYPE
GJ414		76000445	CHIP JUMPER, 1608TYPE
GR04		76000445	CHIP JUMPER, 1608TYPE
GR05		76000445	CHIP JUMPER, 1608TYPE
GR110		76000445	CHIP JUMPER, 1608TYPE
GR112		76000445	CHIP JUMPER, 1608TYPE
GR150		76000445	CHIP JUMPER, 1608TYPE
GR605		76000445	CHIP JUMPER, 1608TYPE
GR610		76000445	CHIP JUMPER, 1608TYPE
GR611		76000445	CHIP JUMPER, 1608TYPE
GR612		76000445	CHIP JUMPER, 1608TYPE
GR613		76000445	CHIP JUMPER, 1608TYPE
GRV55		76000445	CHIP JUMPER, 1608TYPE
GRV56		76000445	CHIP JUMPER, 1608TYPE
GRV57		76000445	CHIP JUMPER, 1608TYPE
⚠ H003		23344525	SWITCH, 2I3O BUNPAI US DIG RSU143
H003A		23368943	CABLE, PH0NO 350MM JLC YAF11-1194N
H003B		23368943	CABLE, PH0NO 350MM JLC YAF11-1194N
H003C		23747055	NUT, F-CONNECTOR 2H BS
K903		23306644	REMOCON IR, IR BLASTER G-LINK VTR CONT
KB01		23009710	REMOCON RECEIVER, GP1UE281RK
MJ22		23389359	CABLE, FFC 0.5 50P L70 GOLD
MJ60		23389359	CABLE, FFC 0.5 50P L70 GOLD
MZ01	#1	23368940	CABLE, LVDS 550MM PDP2
	#2	23368941	CABLE, LVDS 16P 450MM 23368941
N100	#1	23969797	TAPE
P601		23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
P602A		23713938	CONNECTOR, CONNECTB5B-PH-K-S(LF)
P602B		23713938	CONNECTOR, CONNECTB5B-PH-K-S(LF)
P661		23023302	EARPHONE JACK
P662		23023302	EARPHONE JACK
⚠ P801		23372249	POWER CORD, LU/CSA 2M
⚠ P803A		23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P803B		23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P804A		23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
⚠ P804B		23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
⚠ P807A		23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
⚠ P809A		23713762	PLUG, NP 2.5MM G, B11B-EH-F1A
P819		23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P820		23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P821	#2	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
P881		23023131	INLET, NOISE FILTER, GL-2080FVP-L

Location No.		Parts No.	Description
PB501		23023327	EARPHONE JACK
PB502		23023327	EARPHONE JACK
PB503		23023327	EARPHONE JACK
PC01		23713622	CONNECTOR, 2MM 5P SMD B5B-PH-SM4-TBT
PC02		23903251	SOCKET, CFH050-C7-1180
PC02A		23903257	SOCKET, CFHEJT-90-0000
PC03		23903250	SOCKET, CLE9042-0101F
⚠ PJ21A		23713934	CONNECTOR, 2MM 3P S WHT B3B-PH-K-S(LF)
PJ22A		23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ41A		23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ41B		23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ41C		23713943	CONNECTOR, CONNECTB11B-PH-K-S(LF)
PJ60A		23757176	CONNECTOR, IRS 9637S-50Y902 GLD
⚠ PJ62A		23713910	CONNECTOR, CONNECTORB5P-VH(LF)
⚠ PJ63A		23713756	PLUG, 5P 2.5MM G, B5B-EH-F1-TV4
PP01	#2	23974994	BAND, KESSOKU
PP03	#2	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
PP05		23974994	BAND, KESSOKU
PP22	#1	23748085	WASHER, WASHER 10X4.2XT=0.3
PV01		23023311	JACK, PIN 2S6P, LAP5030-0111GC
PV02		23023315	JACK, PIN 7P SMK LAP5030-0203F
PV03		23023313	JACK, PIN 5P, LAP5030-0201G
PV05		23023318	JACK, PIN 5P, LAP50300206GC
PV25A		23713944	CONNECTOR, CONNECTB12B-PH-K-S(LF)
PV25B		23713944	CONNECTOR, CONNECTB12B-PH-K-S(LF)
PV60		23365275	JACK, PHONO 3P V-L-R YKC21
PV61		23023300	JACK, Y/C YKF51-5560
PV90		23713710	SOCKET, D-SUB 15P, KRD-8622
Q670B		23717240	SCREW
QE10B		23717240	SCREW
QE60B		23717240	SCREW
SA01		23344507	SWITCH, PUSH, SKHHLMA010
SA02		23344507	SWITCH, PUSH, SKHHLMA010
SA03		23344507	SWITCH, PUSH, SKHHLMA010
SA04		23344507	SWITCH, PUSH, SKHHLMA010
SA05		23344507	SWITCH, PUSH, SKHHLMA010
SA06		23344507	SWITCH, PUSH, SKHHLMA010
SA07		23344507	SWITCH, PUSH, SKHHLMA010
SA08		23344507	SWITCH, PUSH, SKHHLMA010
U800	#1	23122503	P0WER UNIT, POWER BLOCK MODULE 1H277W
	#2	23122504	P0WER UNIT, POWER BLOCK MODULE 1H278W
⚠ UF01	#1	23125931	MOTOR, DCFAN 12V 80MM 350 D08A-12PM15B
UF02		23125929	MOTOR, FAN, FBL08A12L
⚠ UF03		23125942	MOTOR, DCFAN12V60MMPOD D06R-12TS1002BC2
UF04	#2	23125929	MOTOR, FAN, FBL08A12L
UF05	#2	23125951	MOTOR, DCFAN12V80MM750 D08A-12PM18B(EX)
W661		23351322	SPEAKER, ASSY, 6X12+6X12+TW SPK-1470BO
W662		23351322	SPEAKER, ASSY, 6X12+6X12+TW SPK-1470BO
XB501		23153504	CERAMIC RESONATOR, 8.00MHZ 25OHM
XC01		23153589	CRYSTAL RESONATOR, XTAL 12MHZ
ZA01		23103778	FERRITE CORE, TFE1008
ZA02		23103839	FERRITE CORE, TFE1012
ZA03		23103840	FERRITE CORE, TFE1013
ZA11		23103778	FERRITE CORE, TFE1008
ZA12		23103839	FERRITE CORE, TFE1012
ZC01		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC02		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC03		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC04		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC05		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC06		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC07		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC08		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC09		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC10		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC11		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC12		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC13		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC16		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC18		76019479	CHIP BLOCK, 1/32W 22 OHM J, P-8
ZC19		76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC21		76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC22		76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8
ZC23		76019404	CHIP BLOCK, 1/16W 10K OHM J, P-8

PC BOARD ASSEMBLIES

✻ U101		75001604	PC BOARD ASSY, PD2222B1 SIGNAL
✻ U102		75001605	PC BOARD ASSY, PD2266D1 SEIN FPD FULL NON LAN
✻ U103		75001699	PC BOARD ASSY, PD2301A1 D-TUNER
✻ U104		75001606	PC BOARD ASSY, PD2142A1 MULTI CARD
✻ U105A		75001615	PC BOARD ASSY, PD2220B1 TN/AV-AOUT
✻ U105B		75001616	PC BOARD ASSY, PD2220B2 FRONT-AV
✻ U105C		75001617	PC BOARD ASSY, PD2220B3 LED-RMT
✻ U105D		75001618	PC BOARD ASSY, PD2220B4 KEY-SW
✻ U803	#1	75001599	PC BOARD ASSY, PD2202B1 LOWB
✻	#2	75001686	PC BOARD ASSY, PD2202E1 LOWB

TUNER

⚠ H001		23321536	TUNER, TIF US HOR IIC PH 864M ENG36A36GF

ACCESSORIES

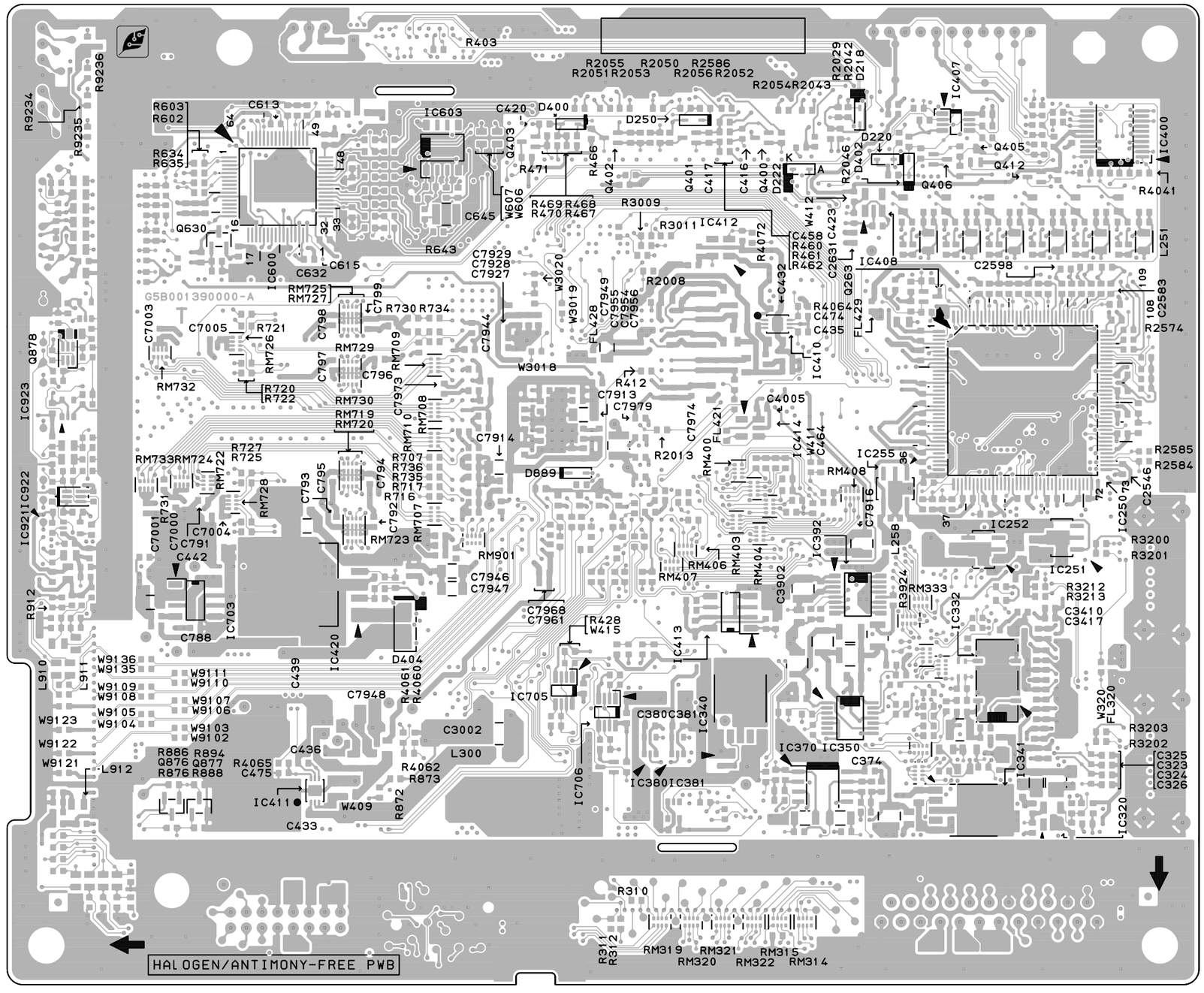
A701A	#1	23015180	CARTON, TOP CASE 42HP95
	#2	23015200	CARTON, TOP CASE 50HP95
A701B	#1	23015181	CARTON, BOTTOM CASE 42HP95
	#2	23015201	CARTON, BOTTOM CASE 50HP95
A702A	#1	23580047	PACKING, TOP PACKING 42HP95
	#2	23580062	PACKING, TOP PACKING 50HP95
A702B	#1	23580048	PACKING, BOTTOM PACKING 42HP95
	#2	23580063	PACKING, BOTTOM PACKING 50HP95
A705		23518043	PACKING, JOINT
⚠ K902		23306627	REMOCON HAND UNIT IR, PTVUSA CT-90233
⚠ Y101		23566699	OWNERS MANUAL, ENG/FRE/SPA 42HP95
Y170		23845800	HOLDER, WIRE, NYLON66 D6.8
Y174		23845510	BAND

CABINET PARTS

⚠ A201	#1	23533599	COVER, FRONT BEZEL ASSY 42HP95
⚠	#2	23533638	COVER, FRONT COVER ASSY 50HP95
A206		23469406	INSULATOR, INSULATOR
A220		23940495	PIECE, PIECE FRONT AV ASSY 42HP95
A221		23940494	PIECE, PIECE CONTROL ASSY 42HP95
A230		23717192	SCREW, SCREW, AV BOARD
A231		23717214	SCREW, BITTB3X12SBN
A235		23717177	SCREW, PP5X12+SW+W SBN
A237	#1	23717250	SCREW, PP4X12+SW+W SBN
⚠ A401	#1	23533556	COVER, BACK COVER ASSY
⚠	#2	23533615	COVER, BACK COVER ASSY OVER ASSY
A403		23436887	FOOT, STAND ASSY 42HP95
A410		23533616	COVER, CABLE COVER PROPER 42HP95
A423		23717217	SCREW, PP6X35+SW+W SBN

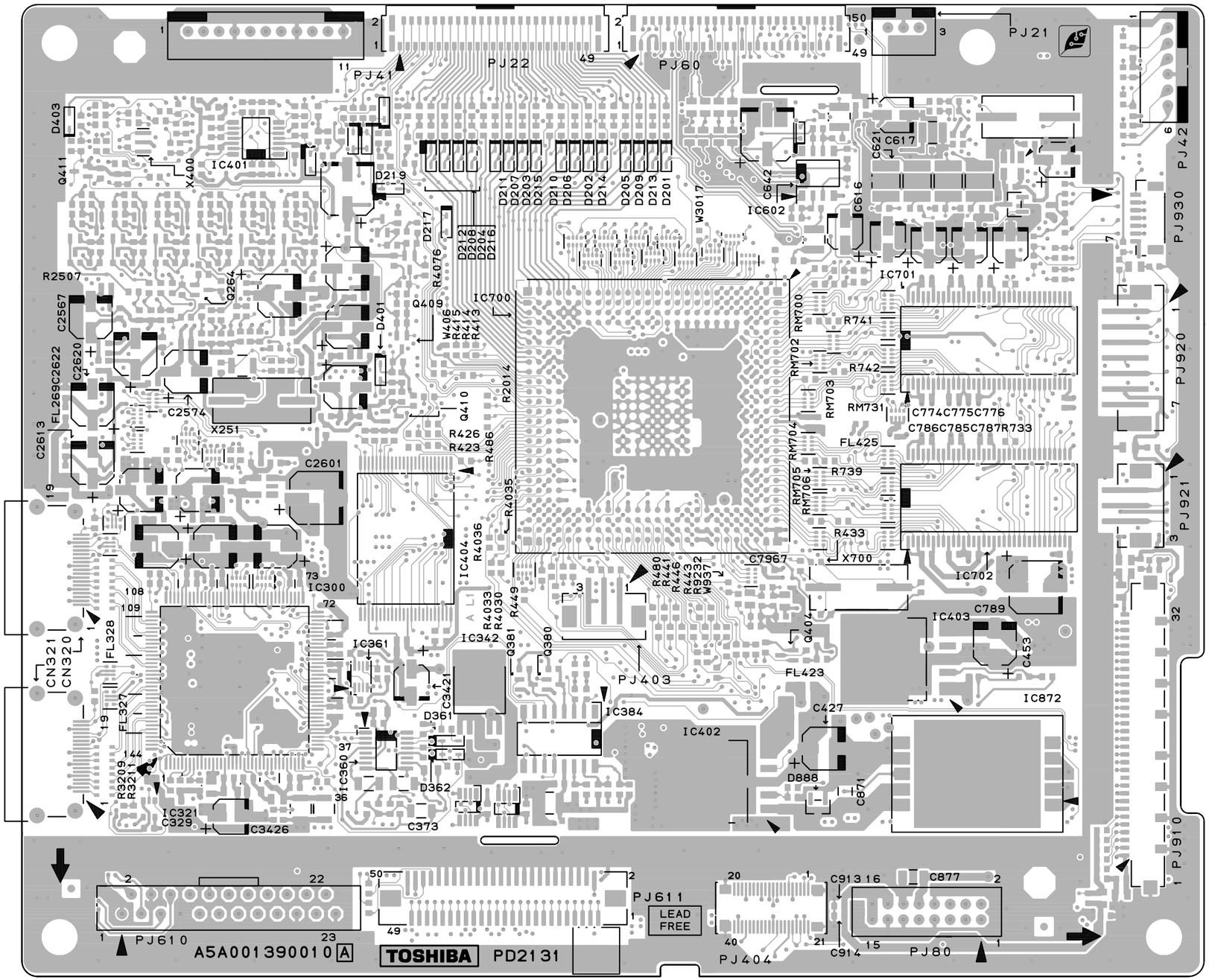
SIGNAL BOARD PD2222B1 (U101)

BOTTOM (FOIL) SIDE



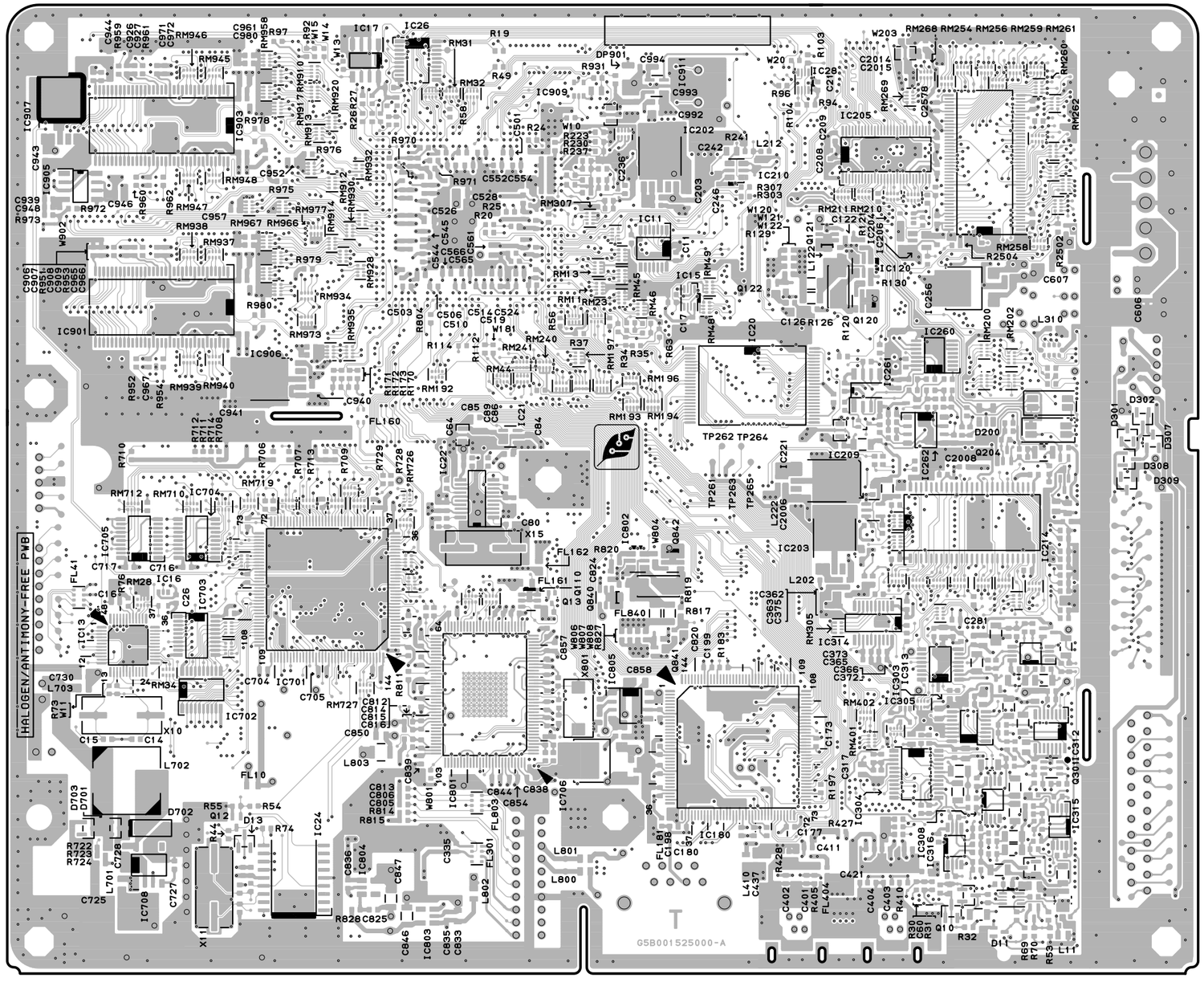
SIGNAL BOARD PD2222B1 (U101)

TOP (COMPONENT) SIDE



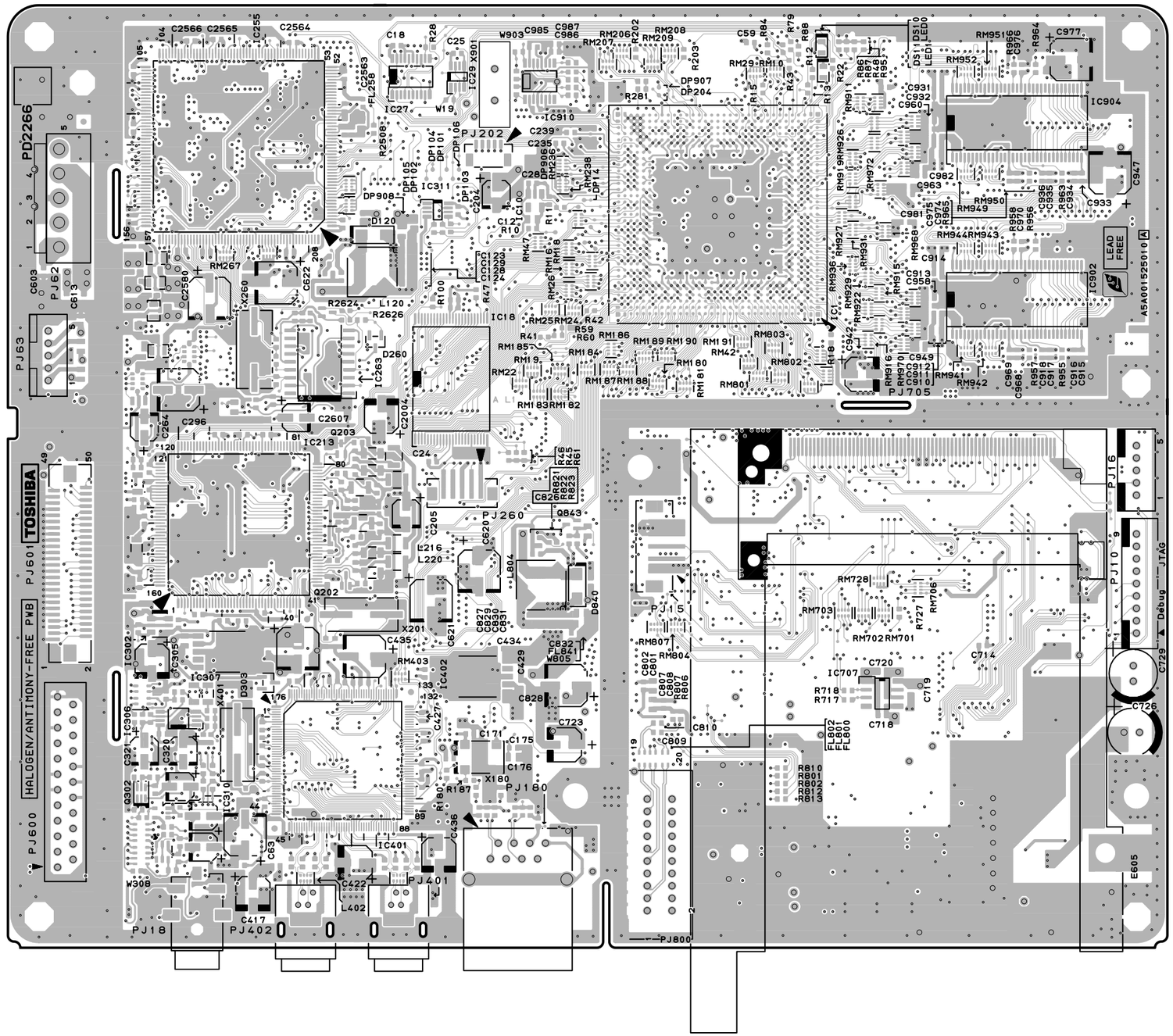
SEIN FPD FULL NON LAN BOARD PD2266D1 (U102)

BOTTOM (FOIL) SIDE



SEIN FPD FULL NON LAN BOARD PD2266D1 (U102)

TOP (COMPONENT) SIDE


PD2266
TOSHIBA
HALOGEN/ANTIMONY-FREE PWB
LEAD FREE
A5A00152501 0 A
PJ601
PJ600
PJ62
PJ63
PJ202
PJ260
PJ705
PJ180
PJ401
PJ402
PJ18
PJ800
PJ16
PJ15
PJ109
JTAG
Debug
IC904
IC902
IC910
IC307
IC213
IC401
IC707
IC18
IC311
IC27
IC1
W903
W308
W805
X901
X260
X201
X401
X180
E605
C2566 C2565
C2564
C2563
C2580
C2607
C2004
C2005
C296
C264
C603
C613
C255
C258
C18
C25
C985 C987
C986
C239
C235
C236
C238
C204
C622
C624
C626
C263
C205
C620
C621
C435
C434
C429
C427
C422
C436
C417
C828
C723
C171
C175
C176
C822
C823
C824
C825
C826
C827
C829
C830
C831
C832
C977
C947
C933
C931
C932
C960
C982
C963
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C975
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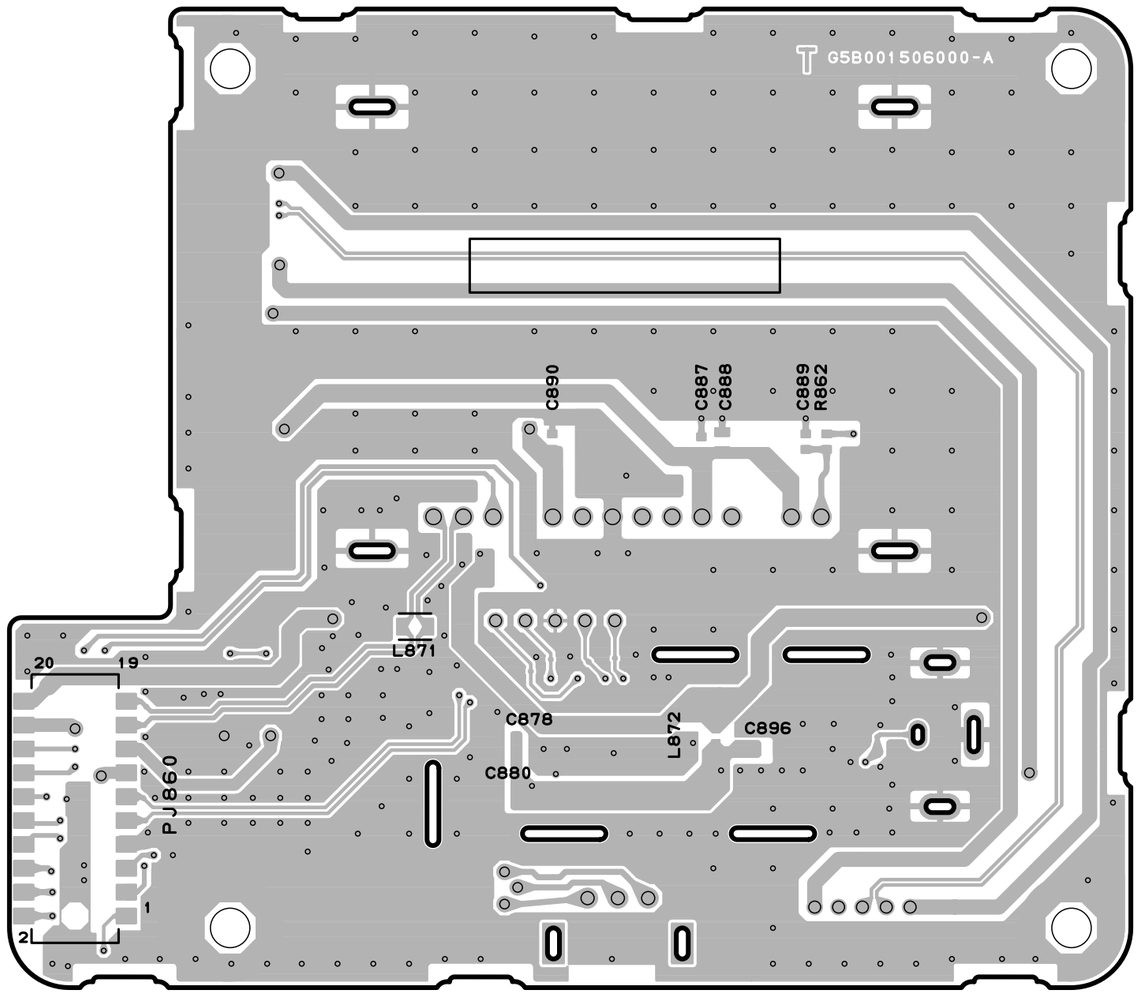
C963
C934
C914
C913
C958
C902
C949
C912
C911
C910
C969
C968
C957
C918
C917
C955
C916
C915
C729
C726
C719
C718
C720
C714
C810
C809
C802
C803
C804
C807
C808
C805
C806
C801
C800
R2624
R2626
R2500
R202
R203
R281
R28
R26
R100
R47
R11
R10
R59
R60
R41
R42
R22
R43
R15
R13
R12
R86
R84
R79
R18
R187
R180
R46
R45
R61
R822
R823
R821
R824
R825
R826
R827
R828
R829
R830
R831
R832
R833
R834
R835
R836
R837
R838
R839
R840
R841
R842
R843
R844
R845
R846
R847
R848
R849
R850
R851
R852
R853
R854
R855
R856
R857
R858
R859
R860
R861
R862
R863

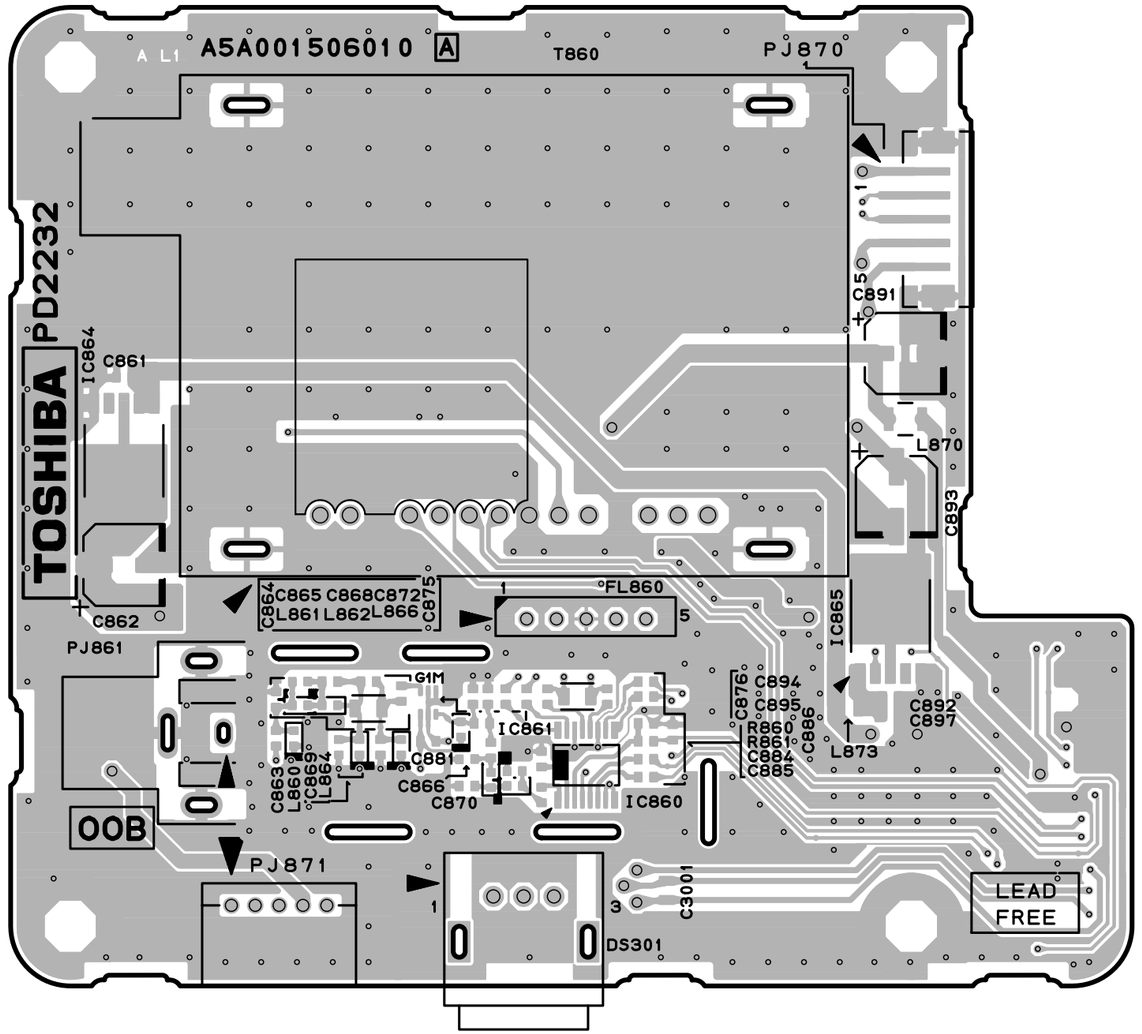
D-TUNER BOARD PD2301A1 (U103)

BOTTOM (FOIL) SIDE



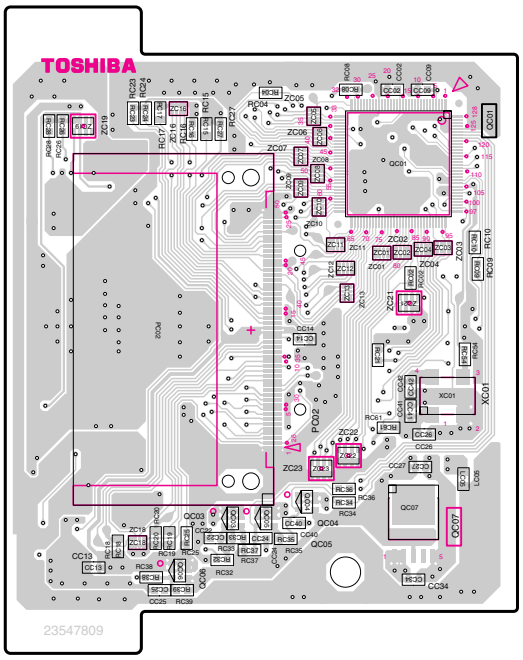
D-TUNER BOARD PD2301A1 (U103)

TOP (COMPONENT) SIDE



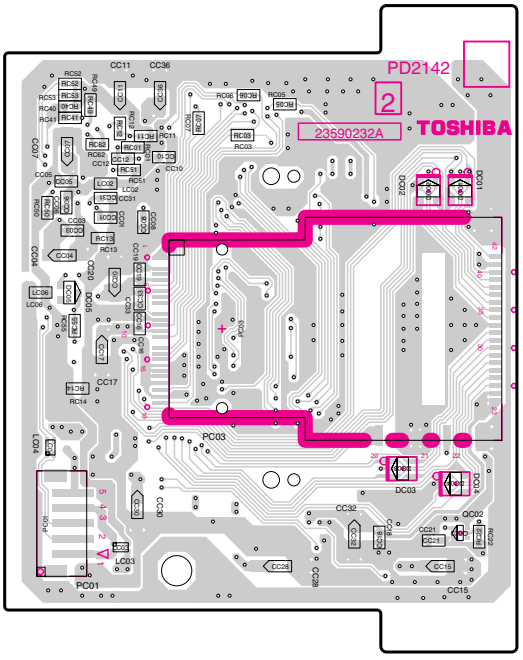
MULTI CARD BOARD PD2142A1 (U104)

BOTTOM (FOIL) SIDE



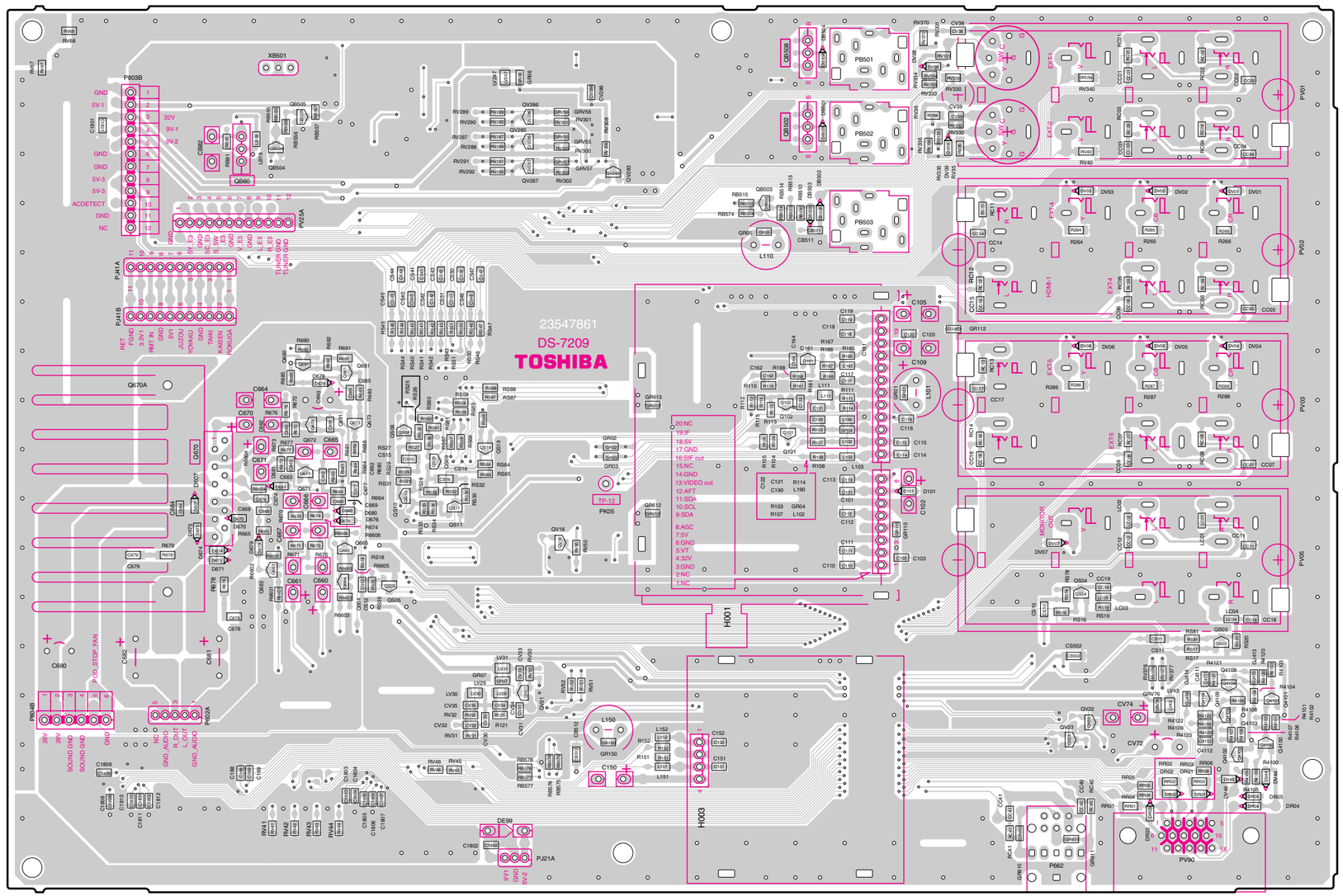
MULTI CARD BOARD PD2142A1 (U104)

TOP (COMPONENT) SIDE



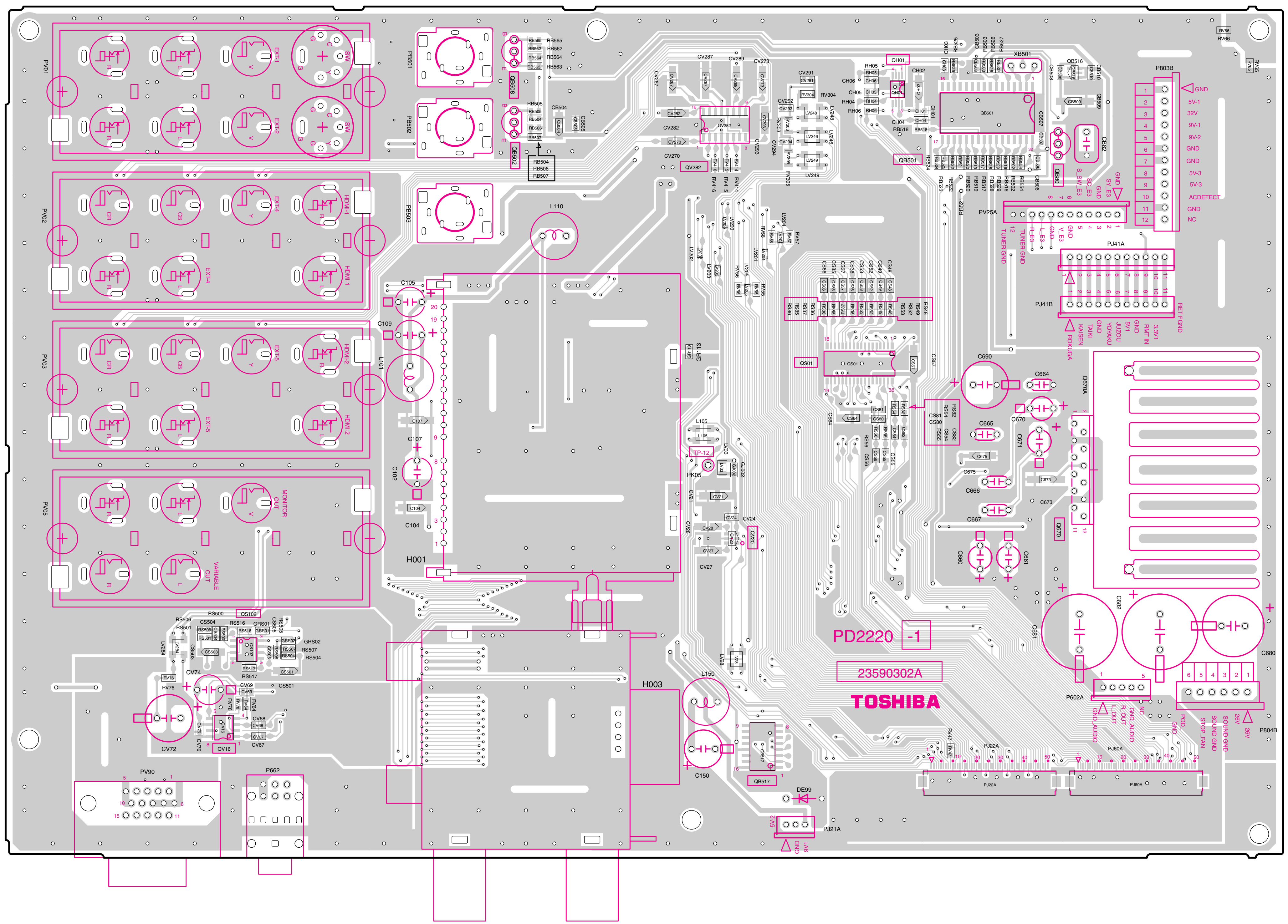
TN/AV-AOUT BOARD PD2220B1 (U105A)

BOTTOM (FOIL) SIDE



TN/AV-AOUT BOARD PD2220B1 (U105A)

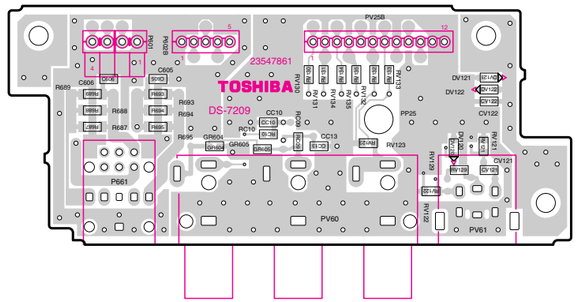
TOP (COMPONENT) SIDE



PD2220 -1
23590302A
TOSHIBA
P803B
GND
5V-1
32V
9V-1
9V-2
GND
GND
5V-3
5V-3
ACDETECT
GND
NC
PJ41A
PJ41B
ROKUGA
KAISEN
TAIKI
GND
YOYAKU
JUZOU
5V1
GND
RMT IN
3.3V1
RET FGND
PV25A
TUNER GND
P602A
GND_AUDIO
L_OUT
R_OUT
GND_AUDIO
NC
P804B
POD
GND
STOP_FAN
SOUND GND
SOUND GND
26V
26V
PJ22A
PJ60A
PJ21A
PV90
P662
H001
H003
EXT-1
EXT-2
EXT-4
EXT-5
HDMI-1
HDMI-2
MONITOR OUT
VARIABLE OUT

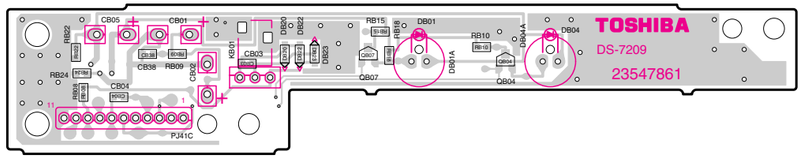
FRONT AV BOARD PD2220B2 (U105B)

BOTTOM (FOIL) SIDE



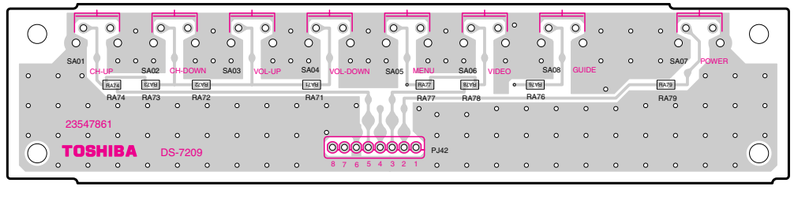
LED-RMT BOARD PD2220B3 (U105C)

BOTTOM (FOIL) SIDE



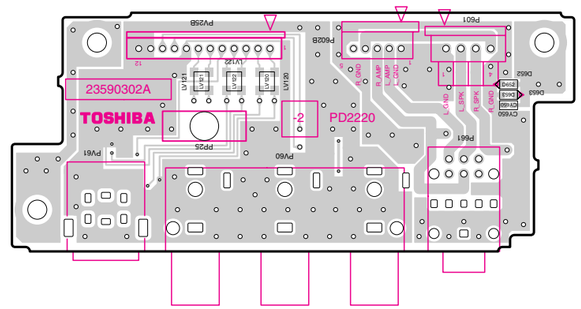
KEY-SW BOARD PD2220B4 (U105D)

BOTTOM (FOIL) SIDE



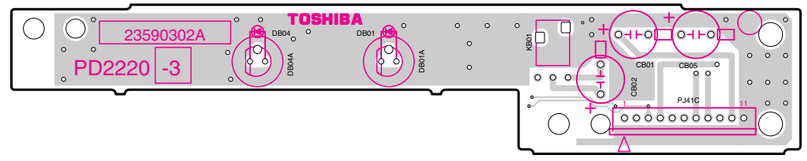
FRONT AV BOARD PD2220B2 (U105B)

TOP (COMPONENT) SIDE



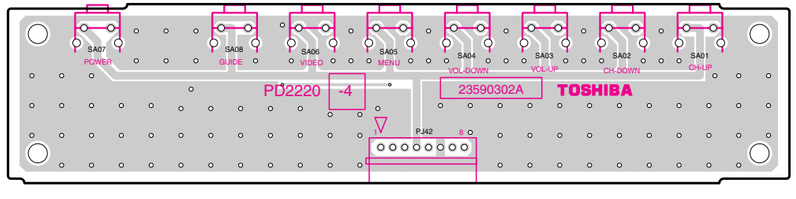
LED-RMT BOARD PD2220B3 (U105C)

TOP (COMPONENT) SIDE



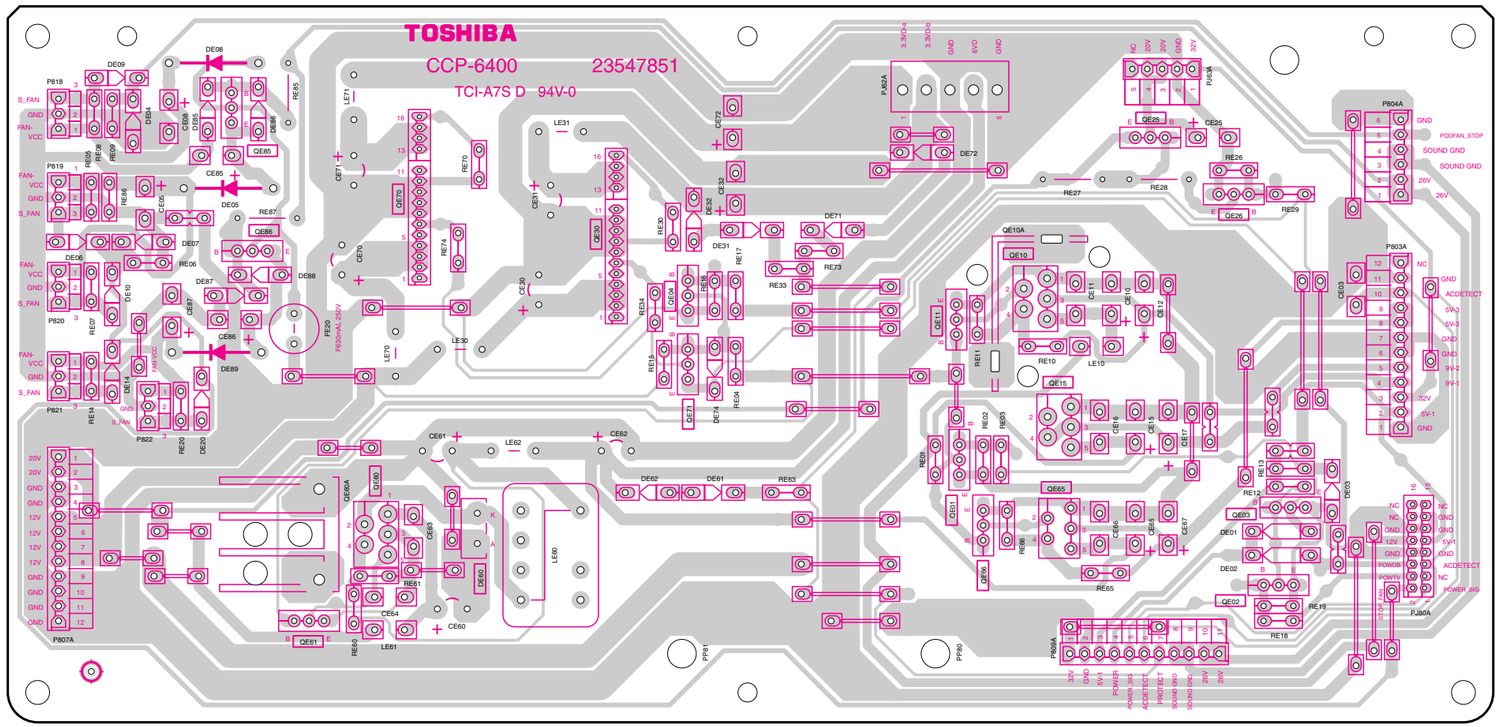
KEY-SW BOARD PD2220B4 (U105D)

TOP (COMPONENT) SIDE



LOWB BOARD (42HP95:PD2202B1 50HP95:PD2202E1) (U803)

BOTTOM (FOIL) SIDE



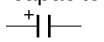
SCHEMATIC DIAGRAM

MODEL : 42HP95/50HP95

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION : The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ **SCHEMATIC DIAGRAM STRUCTURE:**

MULTI CARD
- [SHEET-1/4] 1/128
- [SHEET-2/4] 2/128
- [SHEET-3/4] 3/128
- [SHEET-4/4] 4/128

TN/AV A-OUT
- CONNECTOR [SHEET-1/8] 5/128
- AV TERMINAL [SHEET-2/8] 6/128
- RF-SW&TIF [SHEET-3/8] 7/128
- A-OUT [SHEET-4/8] 8/128
- VIDEO-SW [SHEET-5/8] 9/128
- AUDIO-SW [SHEET-6/8] 10/128
- IR-MICON [SHEET-7/8] 11/128
- EXPANDER FOR PDP [SHEET-8/8] 12/128

FRONT-AV 13/128

IR LED 14/128

KEY 15/128

LOWB 16/128

SIGNAL
- ANALOG IN [SHEET-200] 17/128
- D IN A [SHEET-300] 18/128
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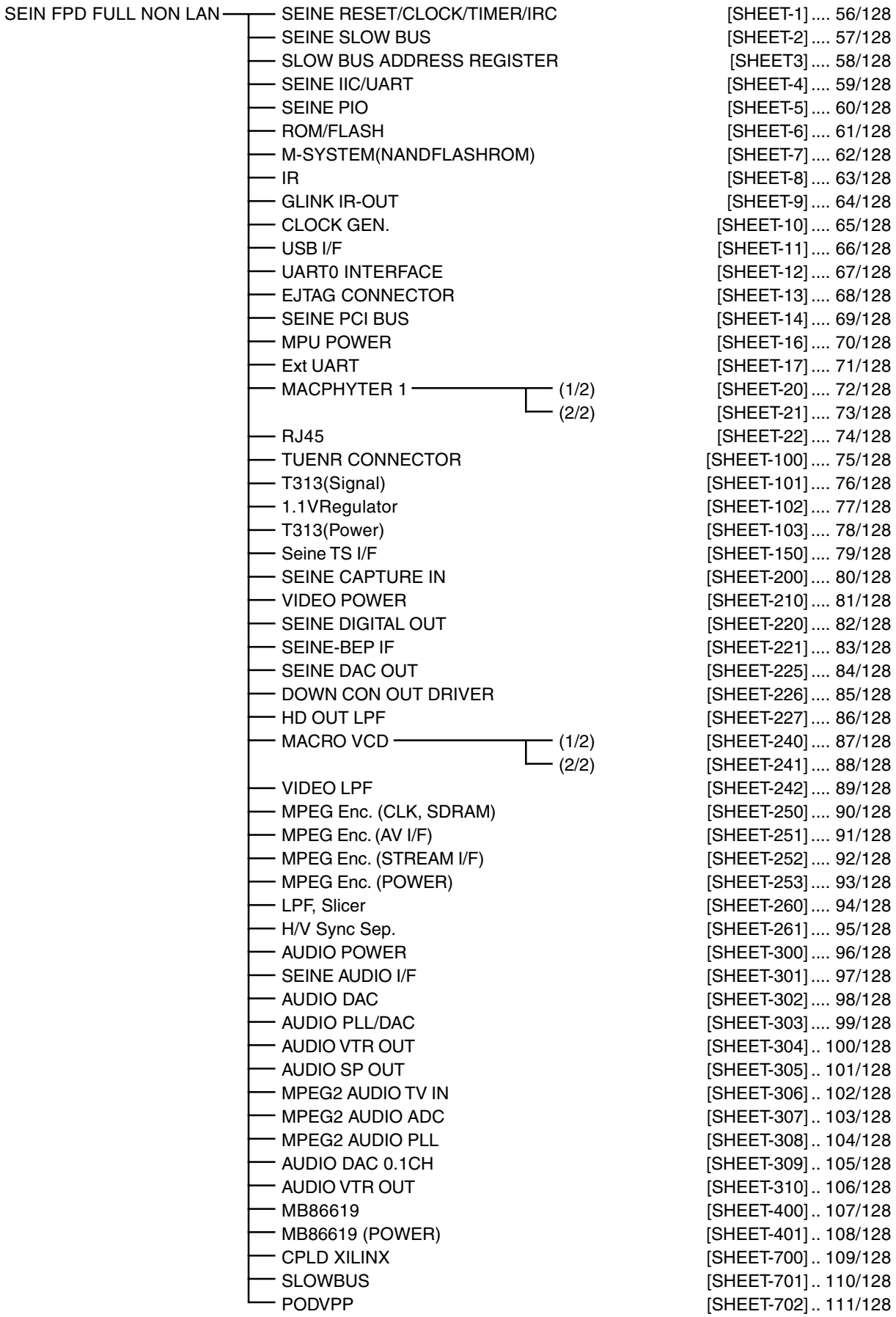
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	DDR 3	[SHEET-904] .. 117/128
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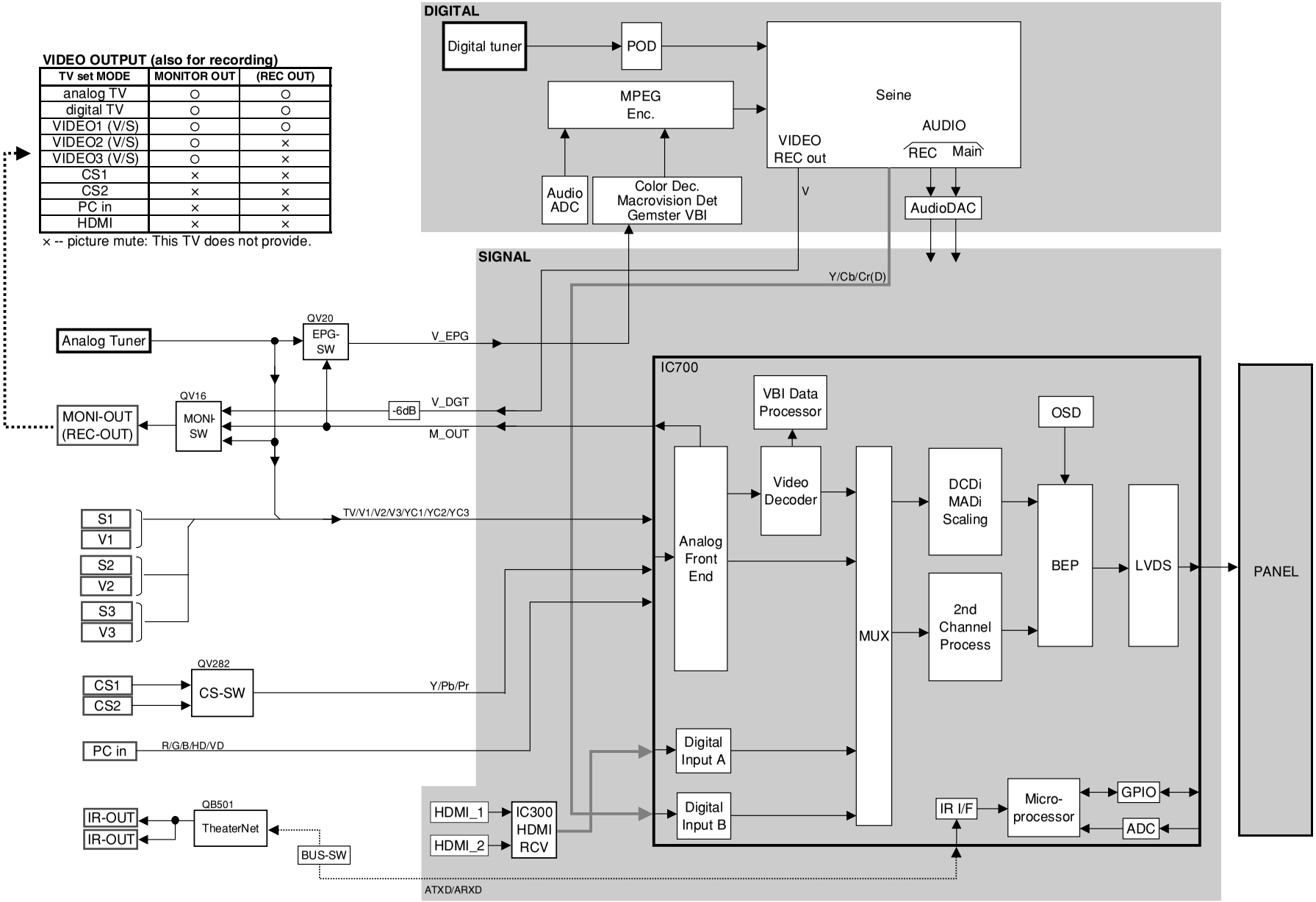
	OOB FDC	[SHEET-105] .. 127/128
	FAT TUNER	[SHEET-106] .. 128/128

CIRCUIT BLOCK DIAGRAM

VIDEO OUTPUT (also for recording)

TV set MODE	MONITOR OUT	(REC OUT)
analog TV	○	○
digital TV	○	○
VIDEO1 (V/S)	○	○
VIDEO2 (V/S)	○	×
VIDEO3 (V/S)	○	×
CS1	×	×
CS2	×	×
PC in	×	×
HDMI	×	×

× -- picture mute: This TV does not provide.



TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

TOSHIBA

FILE NO. 020-200517

CIRCUIT DIAGRAMS

Plasma Color Television

42HP95
50HP95

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DOCUMENT CREATED IN JAPAN, Sep., 2005

SCHEMATIC DIAGRAM

MODEL : 42HP95/50HP95

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON THE MANUAL FOR THIS MODEL.

CAUTION : The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ **SCHEMATIC DIAGRAM STRUCTURE:**

MULTI CARD
- [SHEET-1/4] 1/128
- [SHEET-2/4] 2/128
- [SHEET-3/4] 3/128
- [SHEET-4/4] 4/128

TN/AV A-OUT
- CONNECTOR [SHEET-1/8] 5/128
- AV TERMINAL [SHEET-2/8] 6/128
- RF-SW&TIF [SHEET-3/8] 7/128
- A-OUT [SHEET-4/8] 8/128
- VIDEO-SW [SHEET-5/8] 9/128
- AUDIO-SW [SHEET-6/8] 10/128
- IR-MICON [SHEET-7/8] 11/128
- EXPANDER FOR PDP [SHEET-8/8] 12/128

FRONT-AV 13/128

IR LED 14/128

KEY 15/128

LOWB 16/128

SIGNAL
- ANALOG IN [SHEET-200] 17/128
- D IN A [SHEET-300] 18/128
- D IN B [SHEET-301] 19/128
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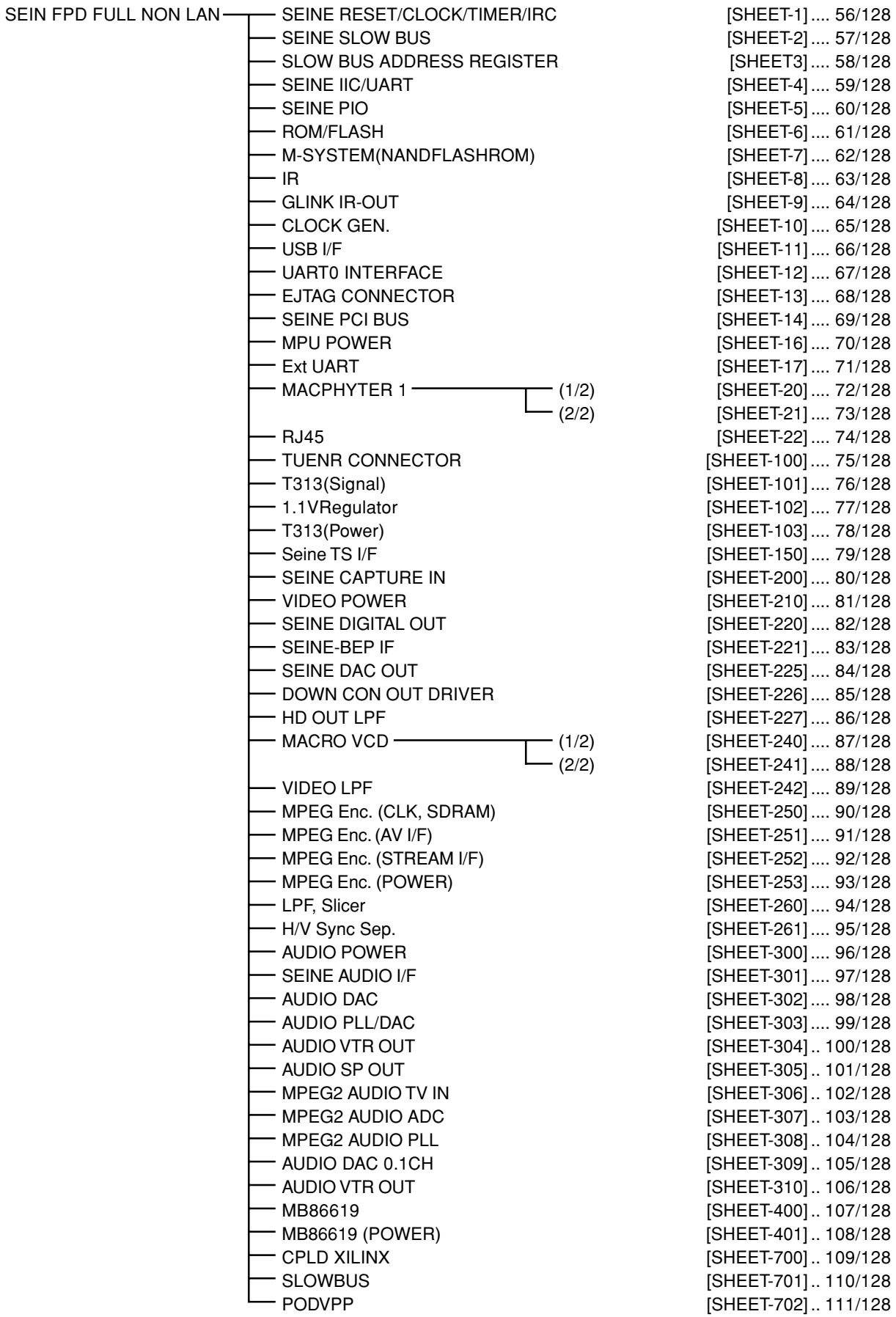
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MPEG Enc. (CLK, SDRAM) [SHEET-250] 90/128
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MPEG Enc. (STREAM I/F) [SHEET-252] 92/128
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AUDIO PLL/DAC [SHEET-303] 99/128
AUDIO VTR OUT [SHEET-304] .. 100/128
AUDIO SP OUT [SHEET-305] .. 101/128
MPEG2 AUDIO TV IN [SHEET-306] .. 102/128
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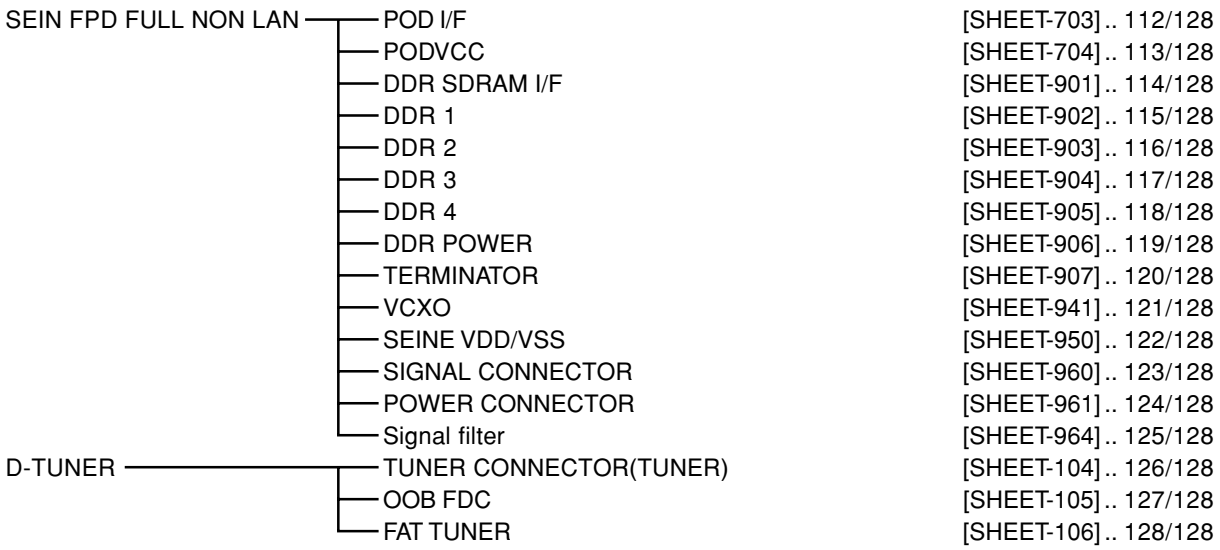
SEIN FPD FULL NON LAN
POD I/F [SHEET-703].. 112/128
PODVCC [SHEET-704].. 113/128
DDR SDRAM I/F [SHEET-901].. 114/128
DDR 1 [SHEET-902].. 115/128
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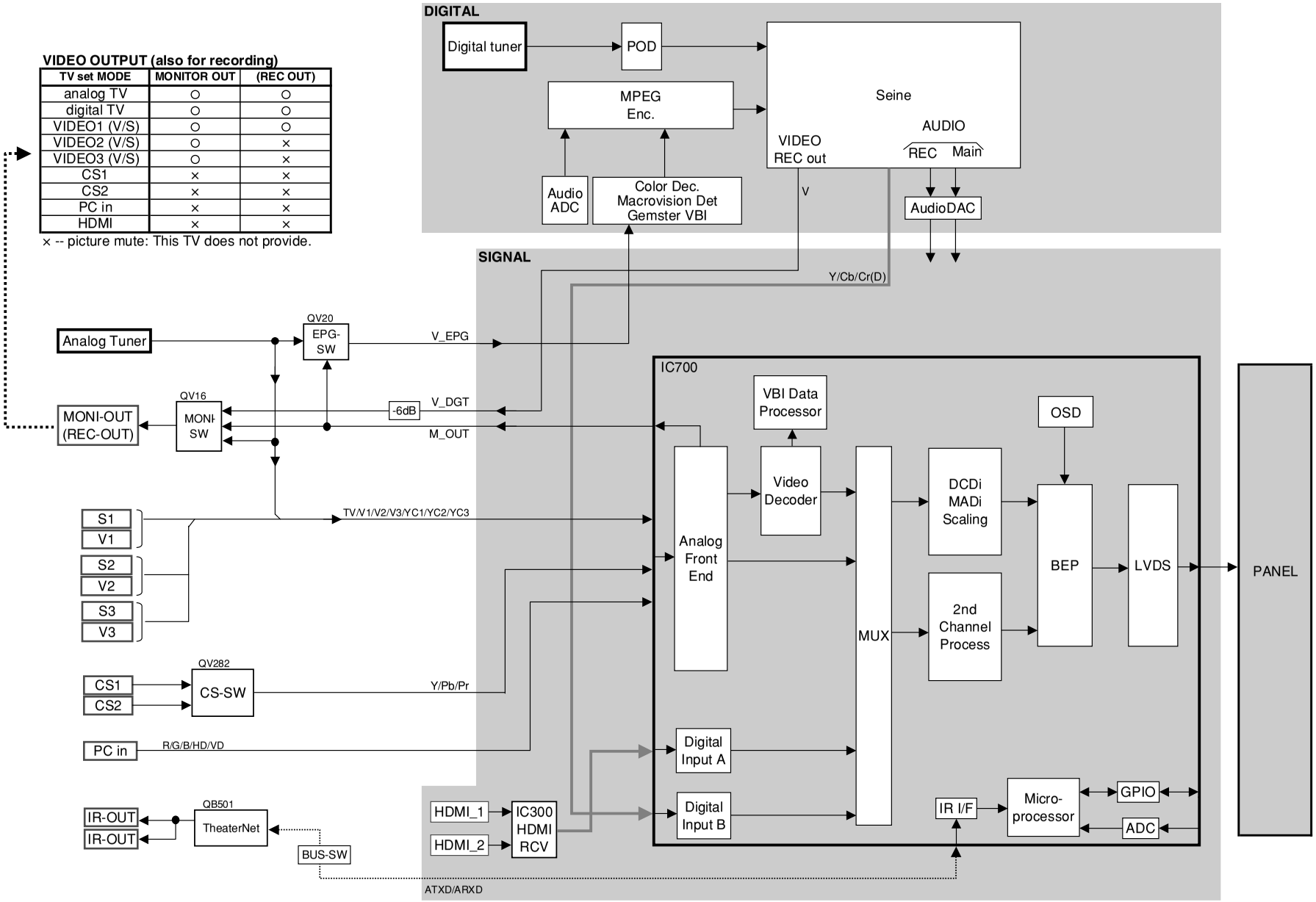
OOB FDC [SHEET-105].. 127/128
FAT TUNER [SHEET-106].. 128/128

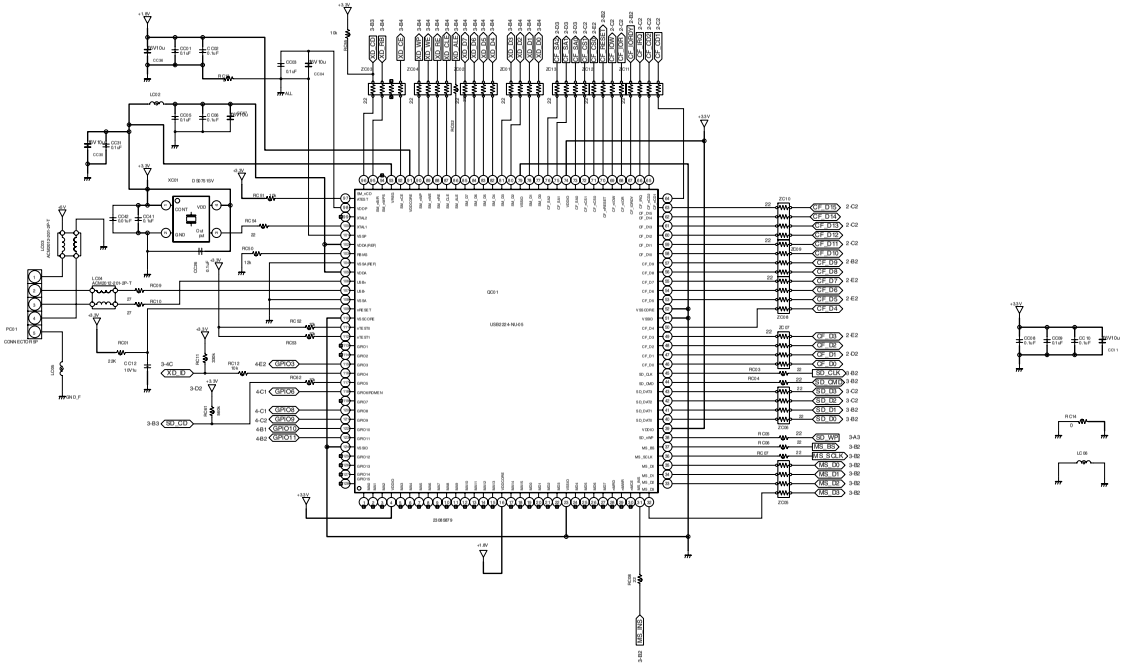
CIRCUIT BLOCK DIAGRAM

VIDEO OUTPUT (also for recording)

TV set MODE	MONITOR OUT	(REC OUT)
analog TV	○	○
digital TV	○	○
VIDEO1 (V/S)	○	○
VIDEO2 (V/S)	○	×
VIDEO3 (V/S)	○	×
CS1	×	×
CS2	×	×
PC in	×	×
HDMI	×	×

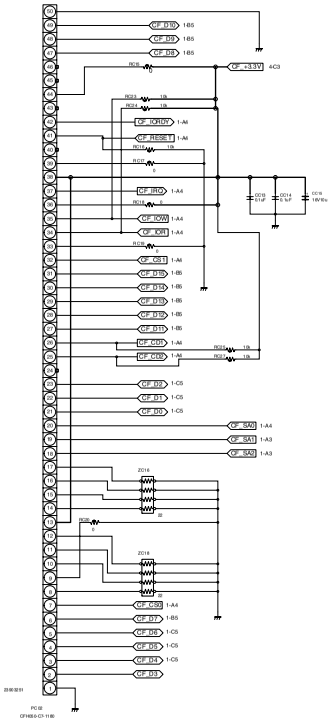
× -- picture mute: This TV does not provide.



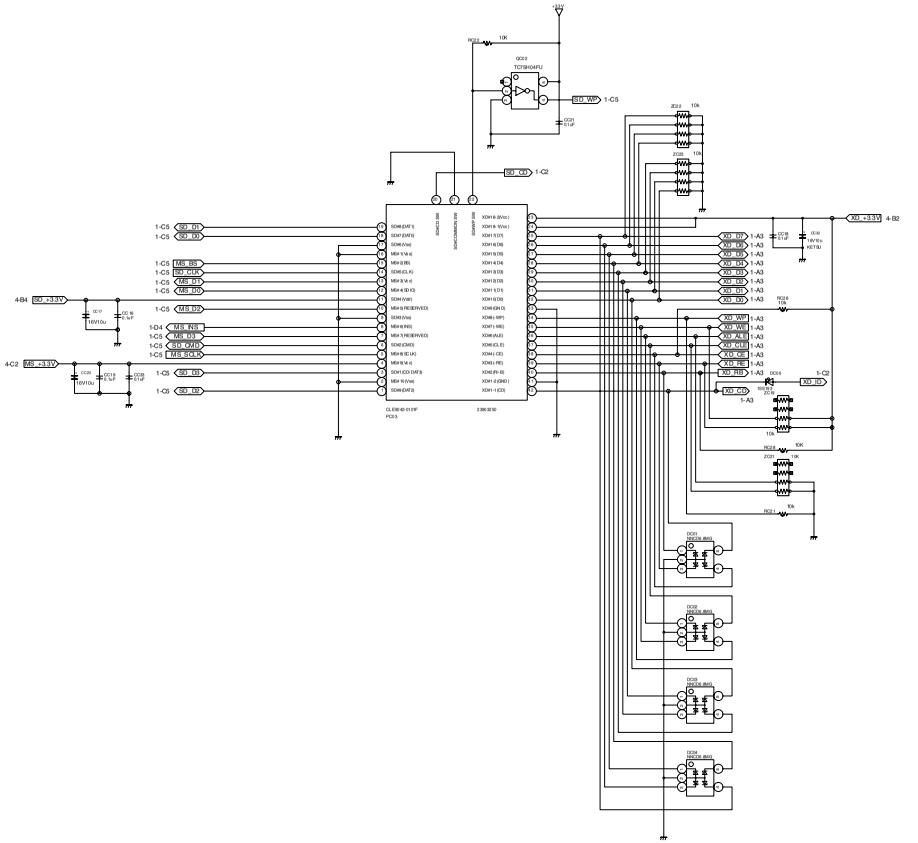


42/50HP95
MULTI CARD
[SHEET-1/4]

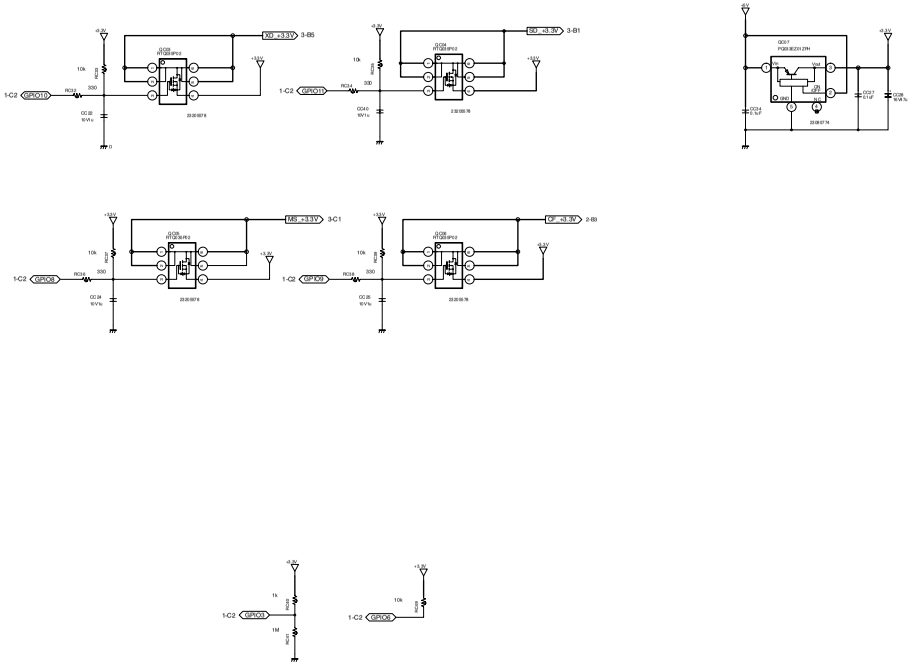
CFH050-C7-1180



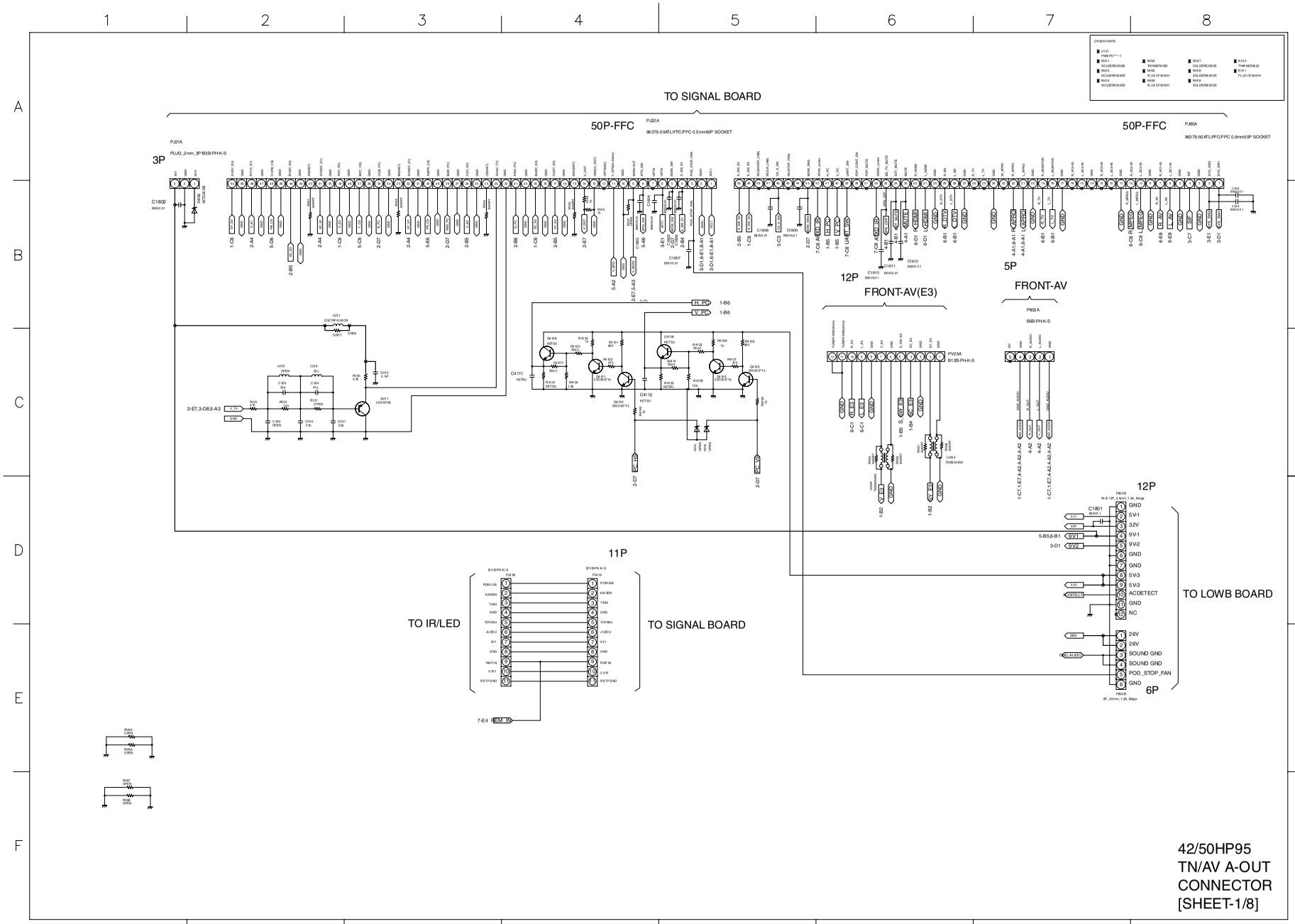
42/50HP95
MULTI CARD
[SHEET-24]

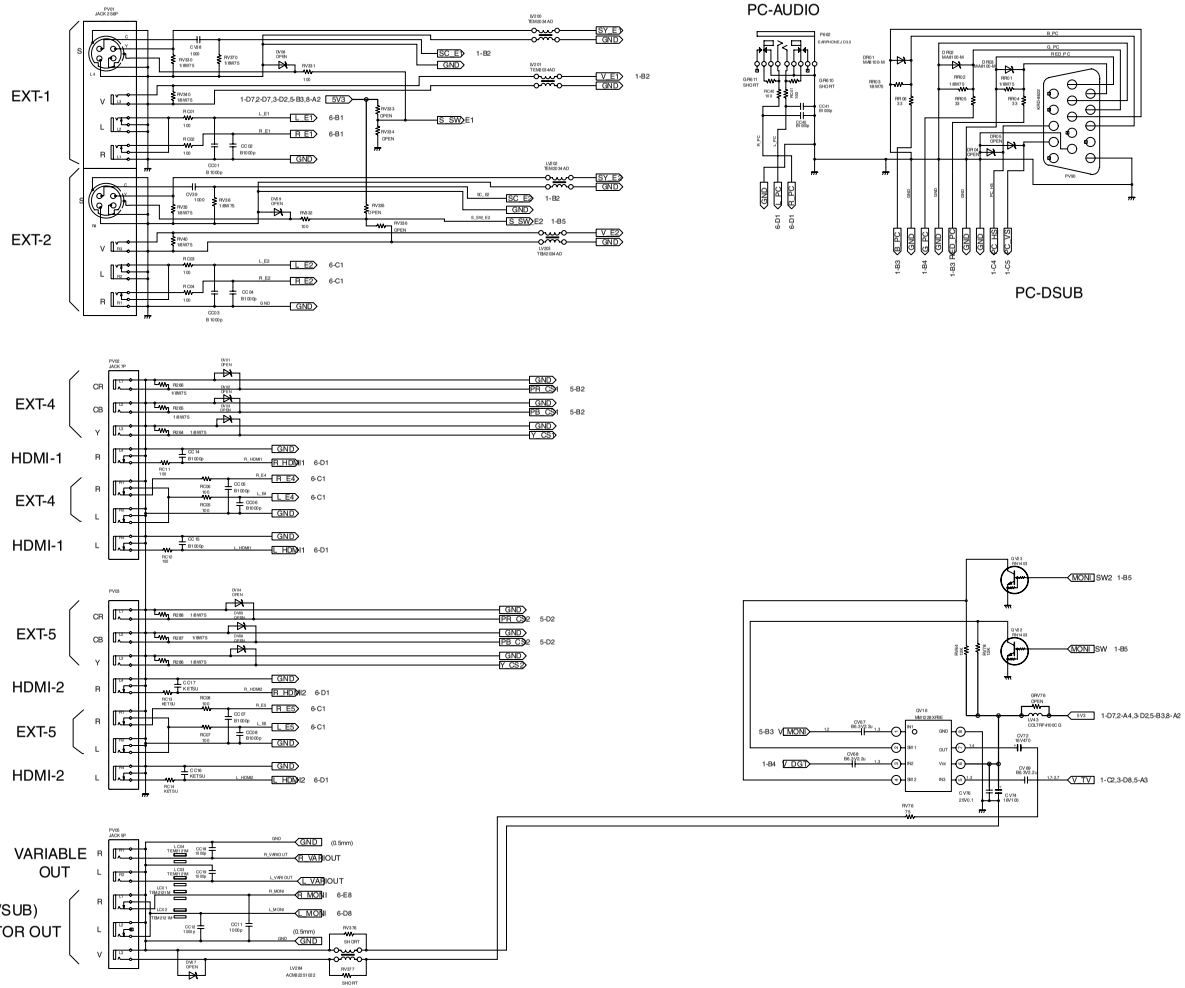


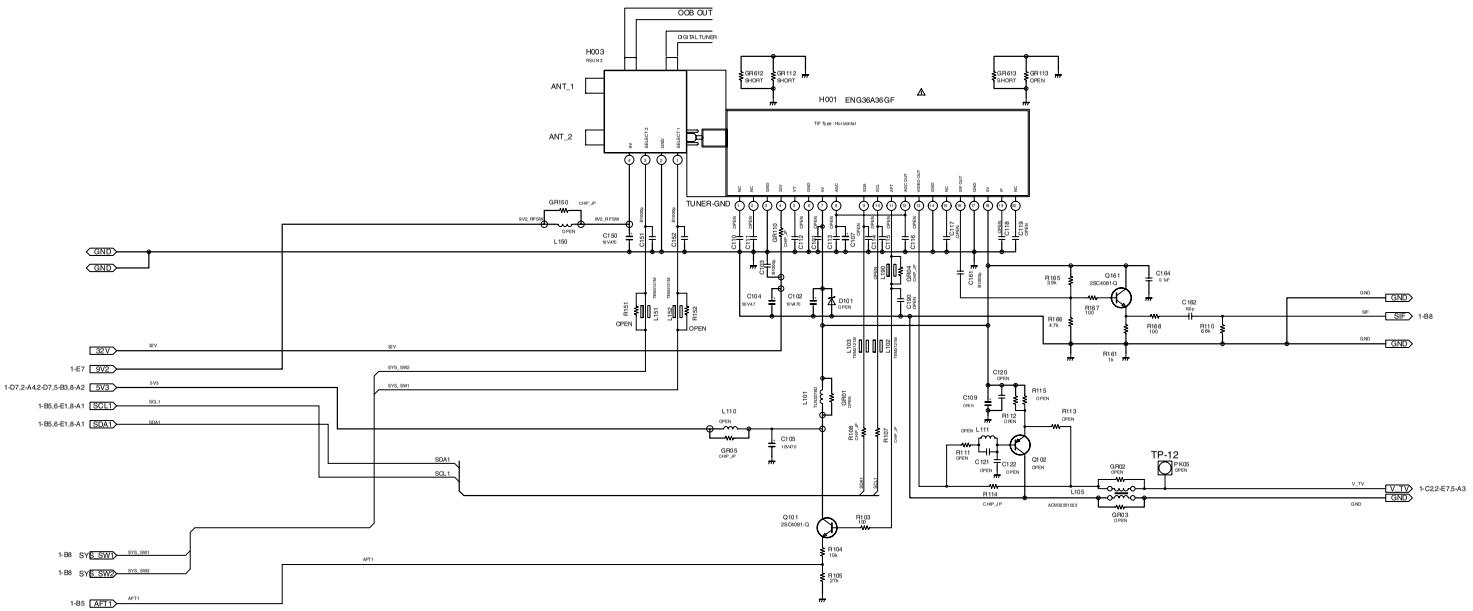
42/50HP95
MULTI CARD
[SHEET-3/4]



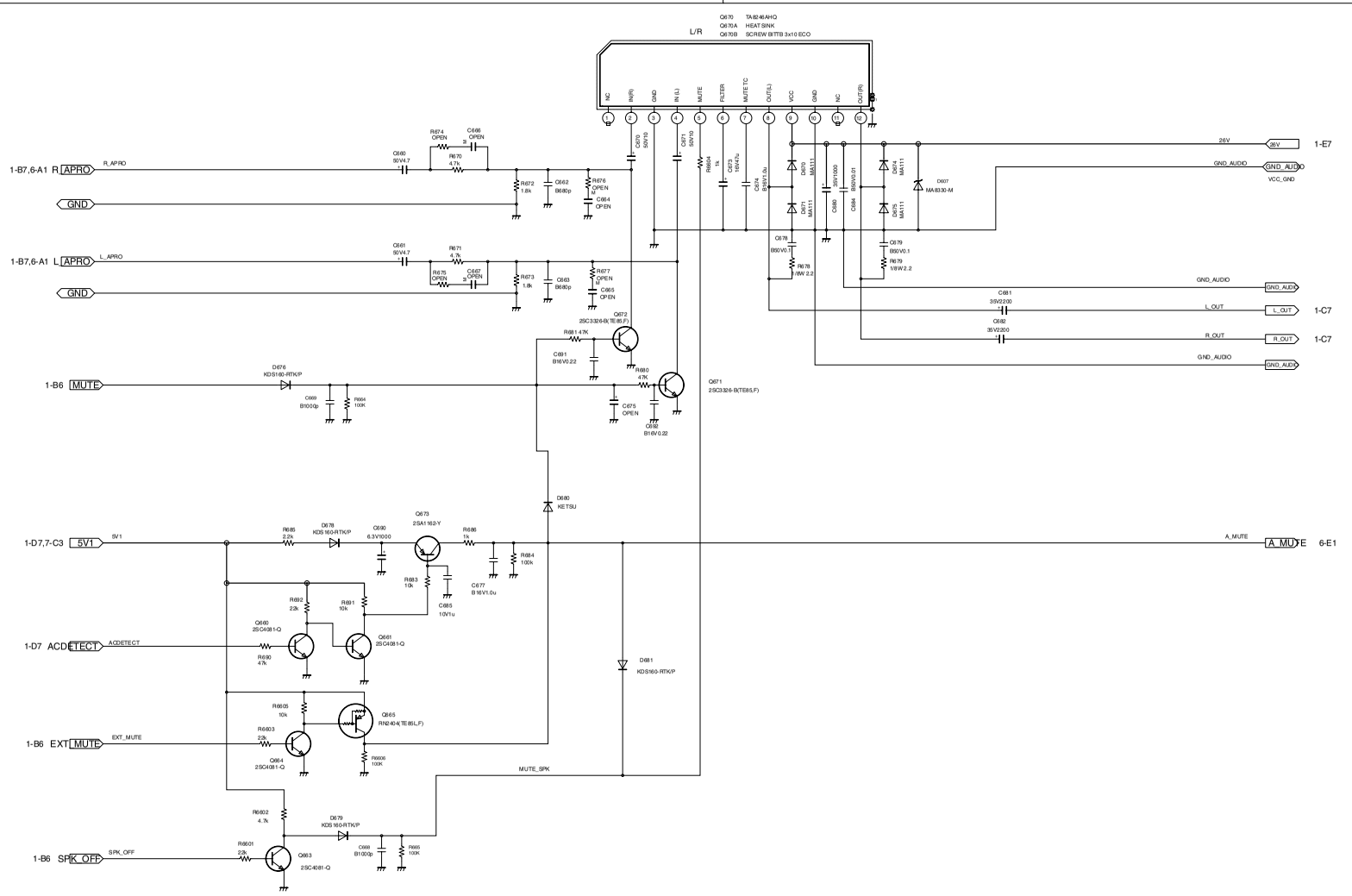
42/50HP95
MULTI CARD
[SHEET-4/4]


TO SIGNAL BOARD
50P-FFC
50P-FFC
3P
12P
FRONT-AV(E3)
5P
FRONT-AV
12P
TO LOWB BOARD
6P
11P
TO IR/LED
TO SIGNAL BOARD
42/50HP95
TN/AV A-OUT
CONNECTOR
[SHEET-1/8]


EXT-1
EXT-2
EXT-4
HDMI-1
EXT-4
HDMI-1
EXT-5
HDMI-2
EXT-5
HDMI-2
VARIABLE OUT
(MAIN/SUB) MONITOR OUT
PC-AUDIO
PC-DSUB
42/50HP95
TN/AV A-OUT
AV TERMINAL
[SHEET-2/8]



42/50HP95
TN/AV A-OUT
RF-SW&TIF
[SHEET-3/8]



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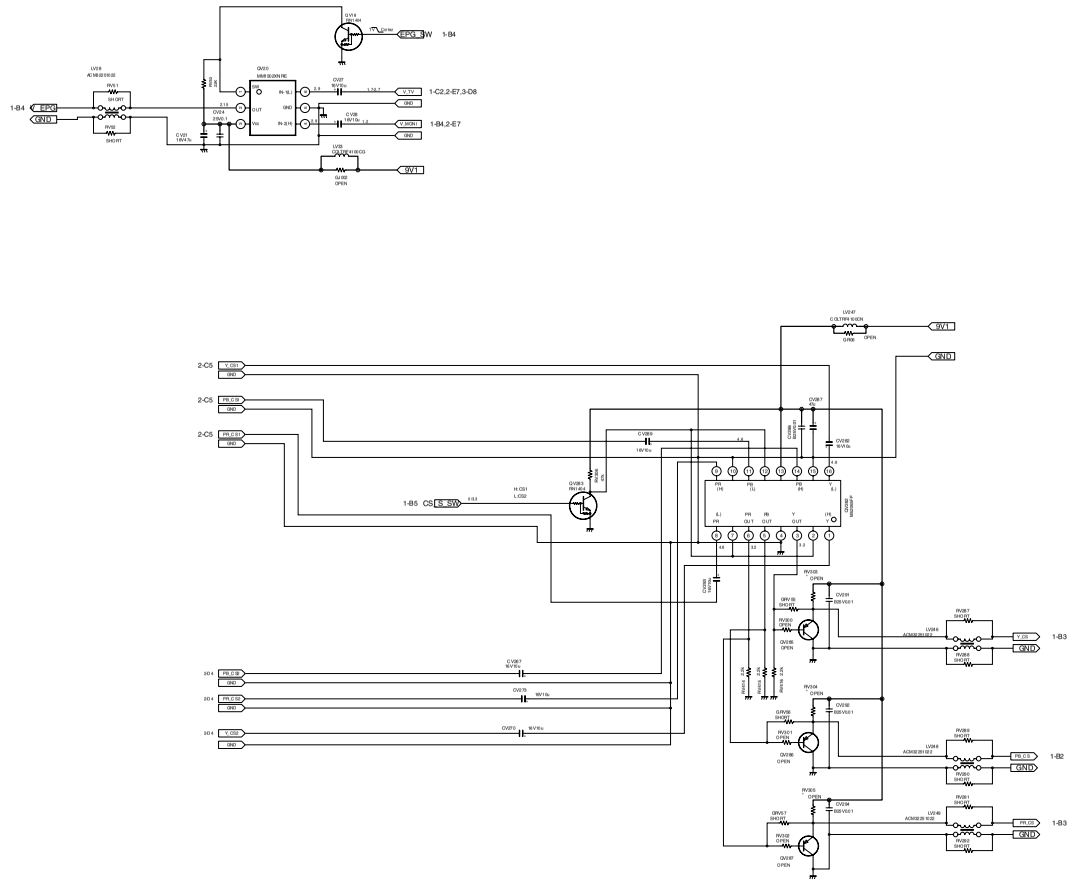
TN/AV A-OUT
A-OUT
[SHEET-4/8]



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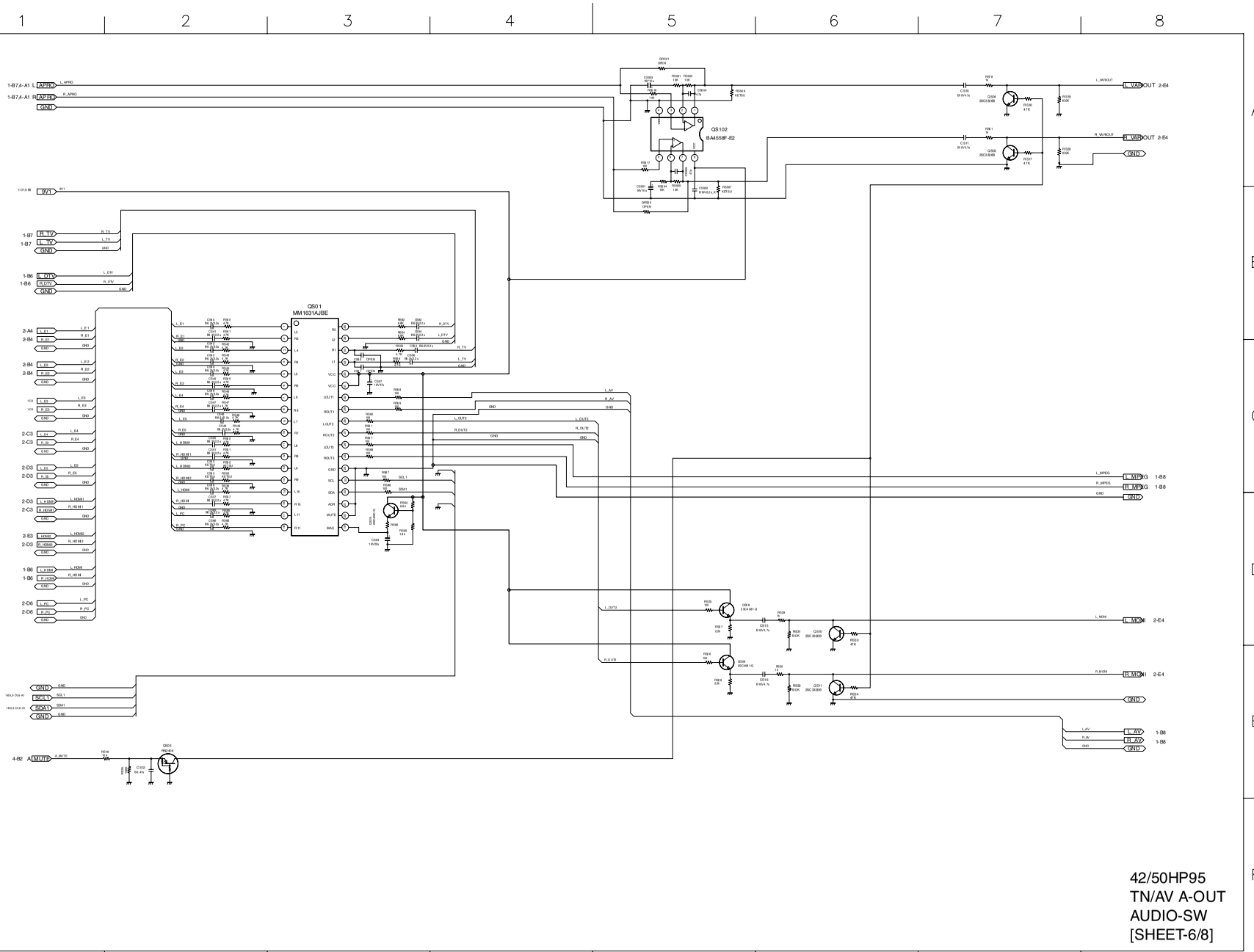
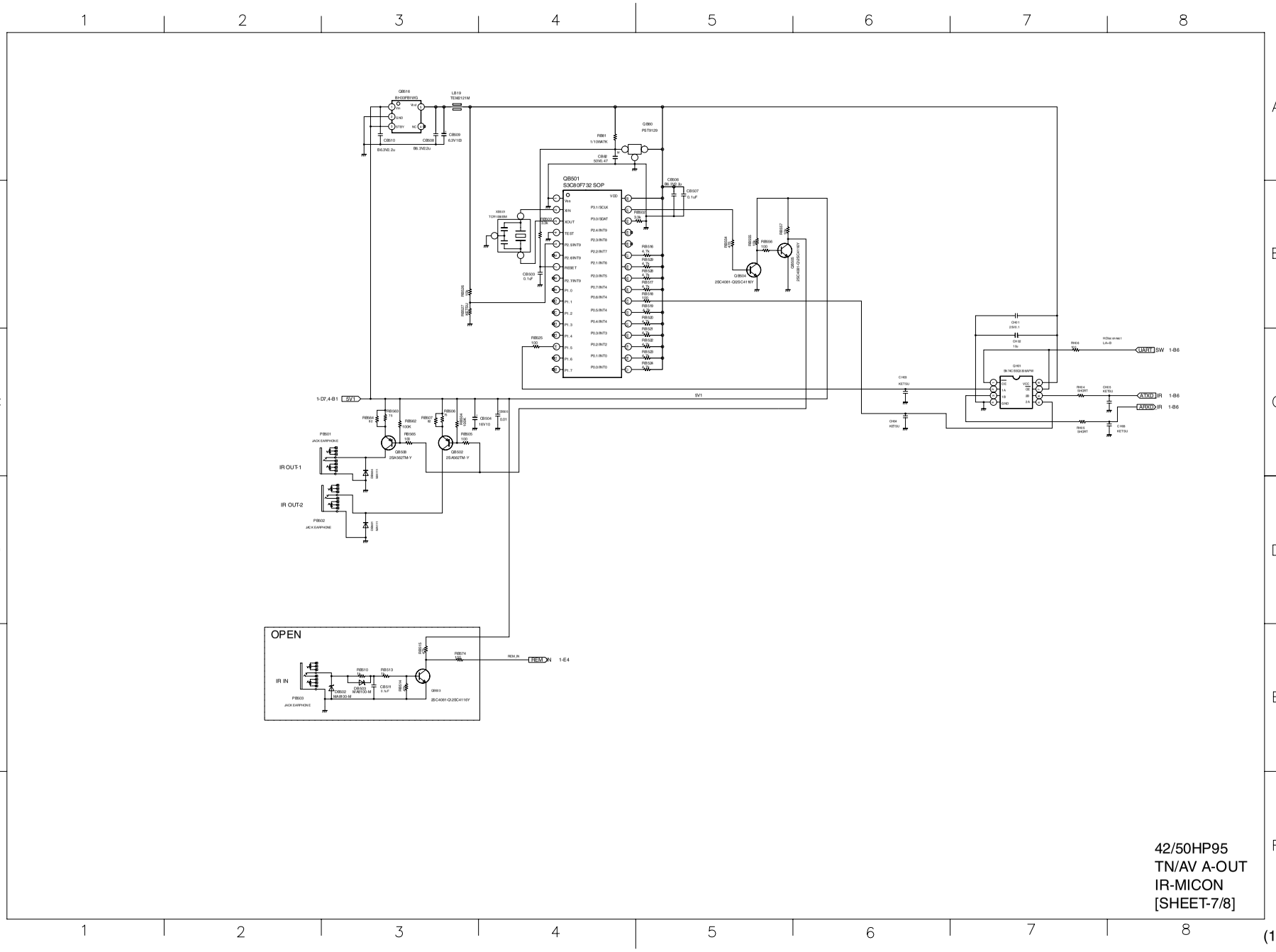
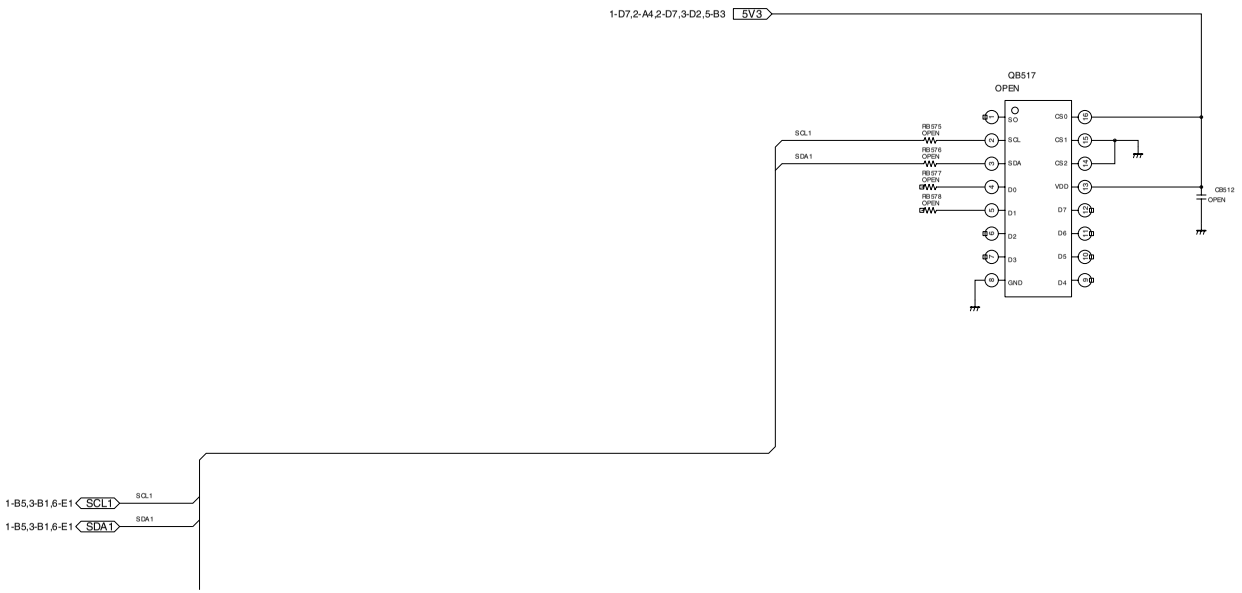
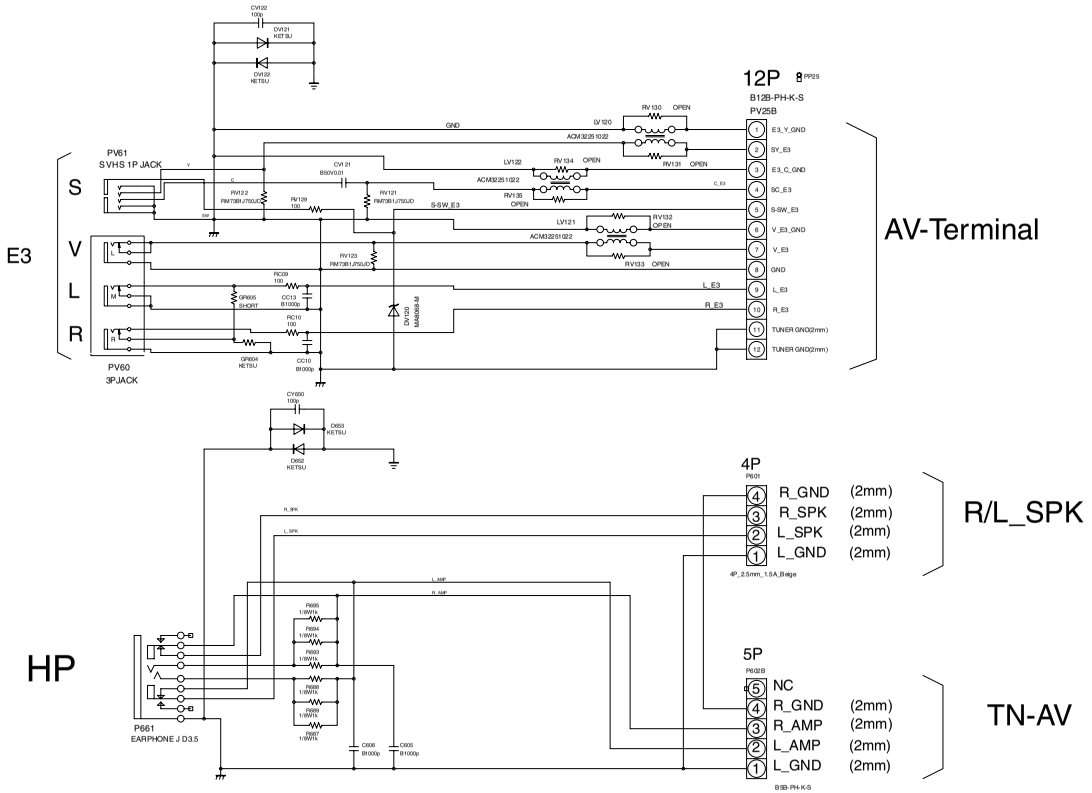
TN/AV A-OUT
VIDEO-SW
[SHEET-5/8]


QS102
BA4558F-E2
QS01
MM1631AJBE
42/50HP95
TN/AV A-OUT
AUDIO-SW
[SHEET-6/8]

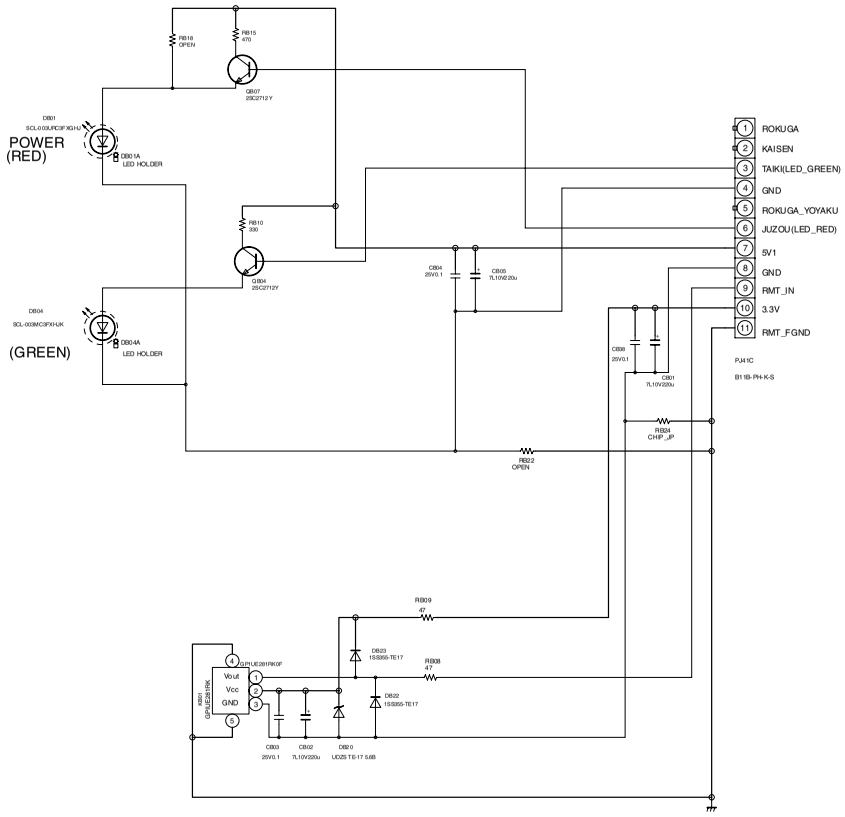

QB501
S3C80F732 SOP
OPEN
IR IN
IR OUT-1
IR OUT-2
JACK EARPHONE
2SA562TM-Y
2SA592TM-Y
2SC4081-Q/2SC4116Y
MA8100-M
MA8111
1-D7,4-B1
8V1
REM_IN
REMOTE IN
1-E4
UART SW
ATXD IR
ARXD IR
1-B6
42/50HP95
TN/AV A-OUT
IR-MICON
[SHEET-7/8]



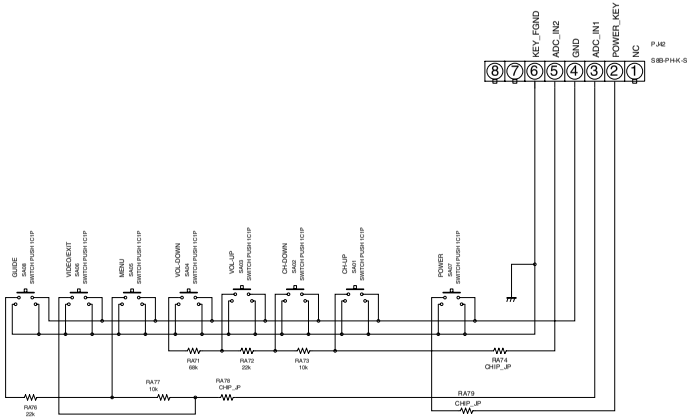
42/50HP95
TN/AV A-OUT
EXPANDER FOR PDP
[SHEET-8/8]



42/50HP95
FRONT-AV



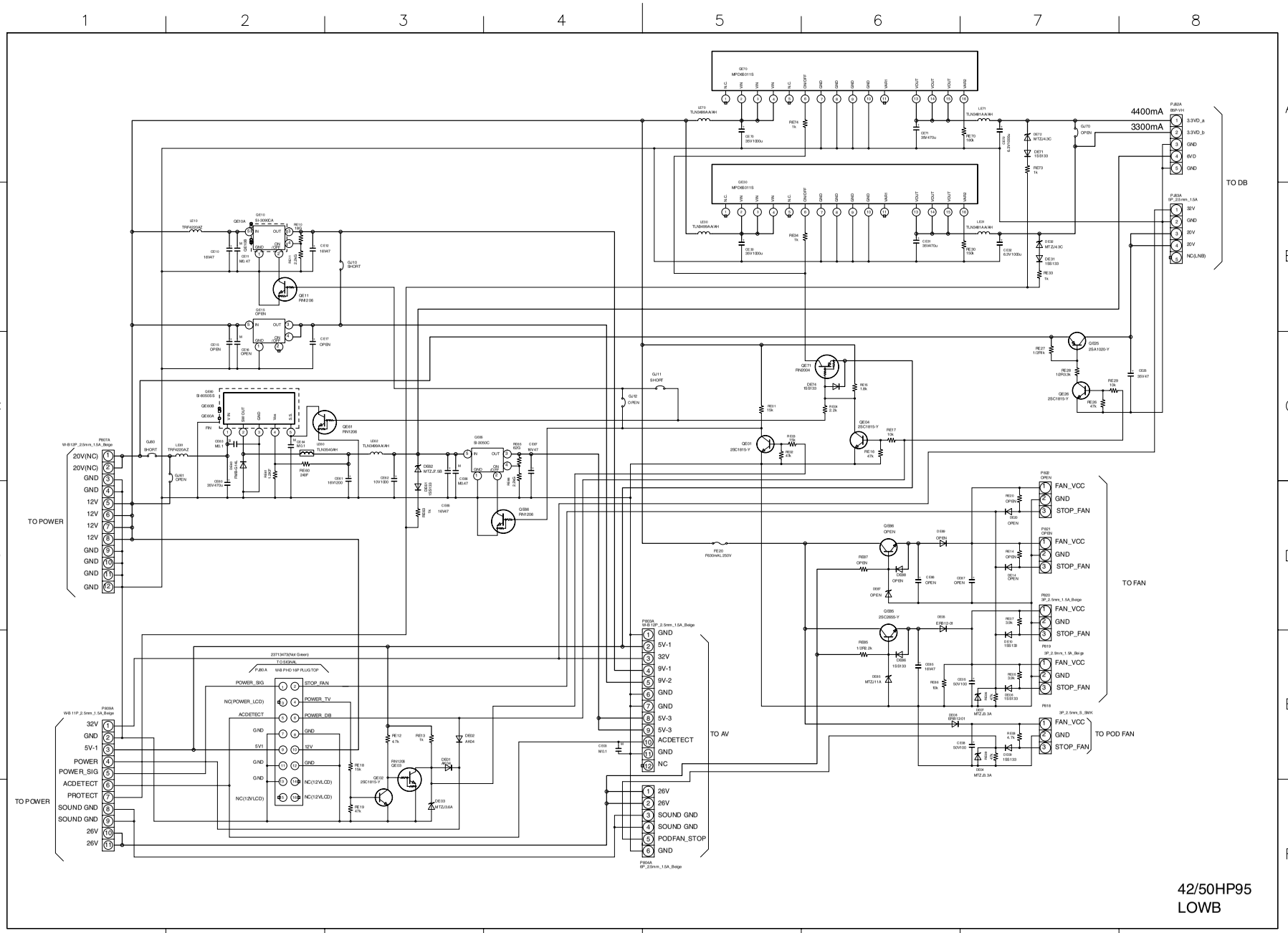
42/50HP95
IR LED

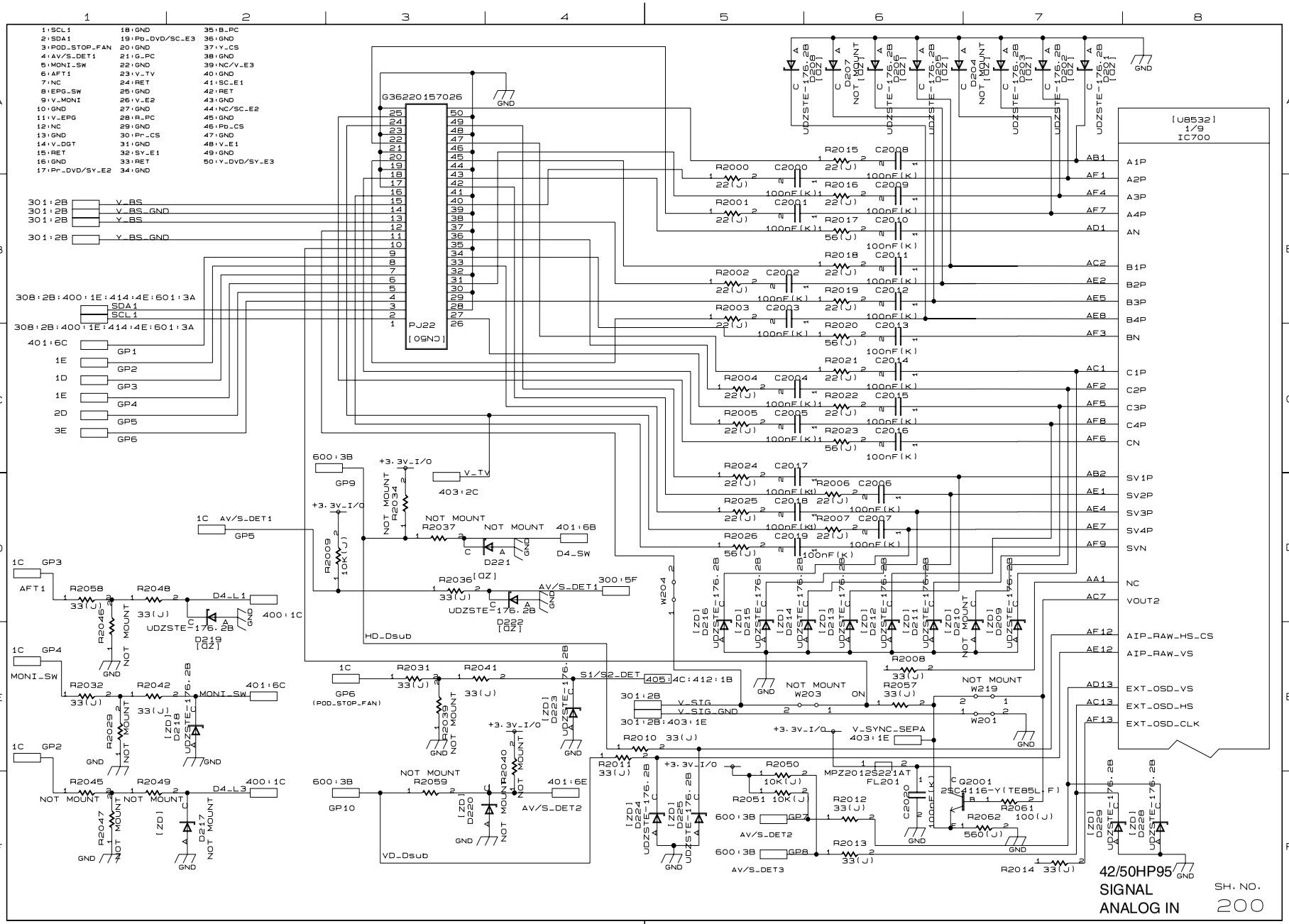


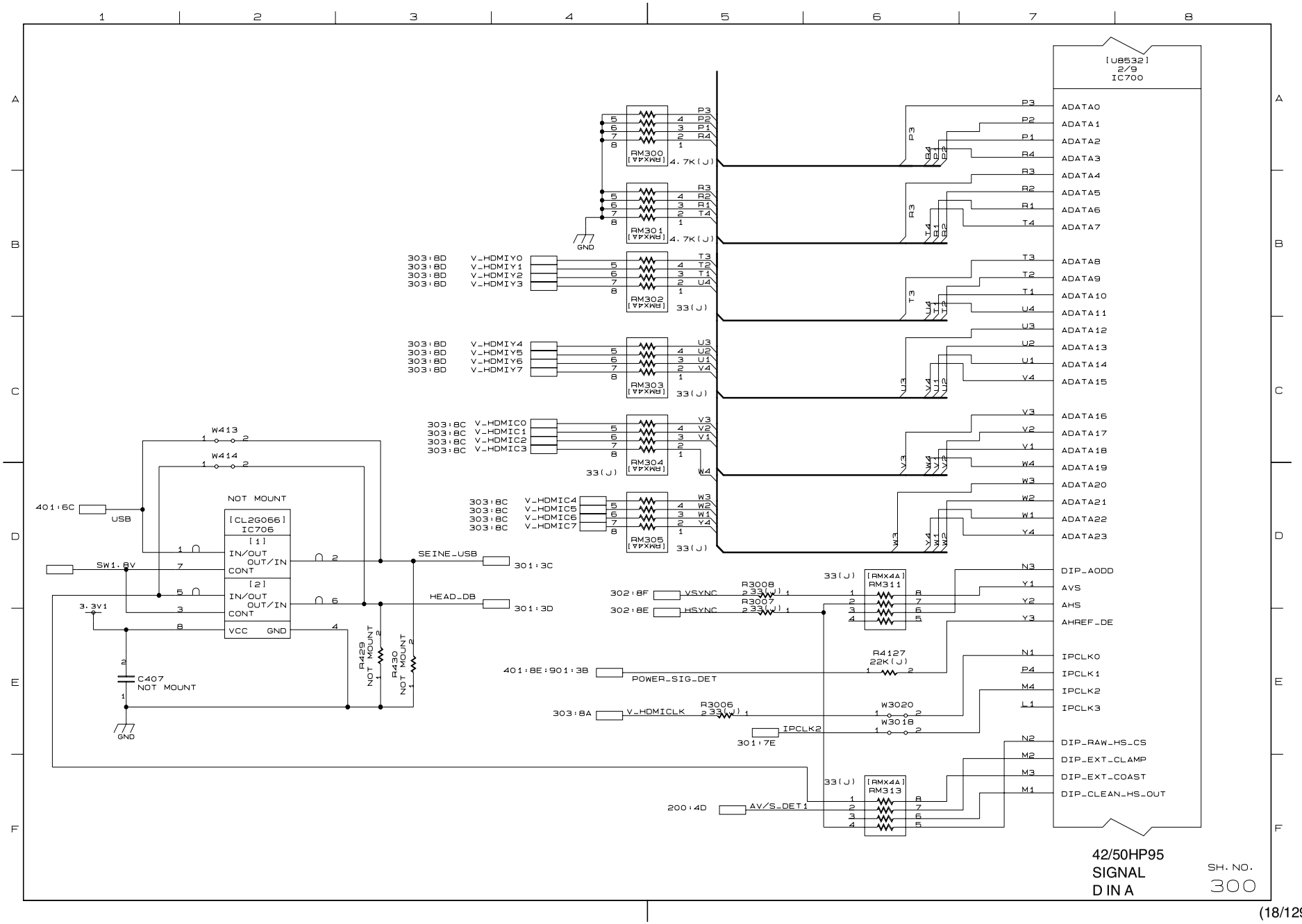
OTHER PARTS

U123
PWB:PD***-3

42/50HP95
KEY

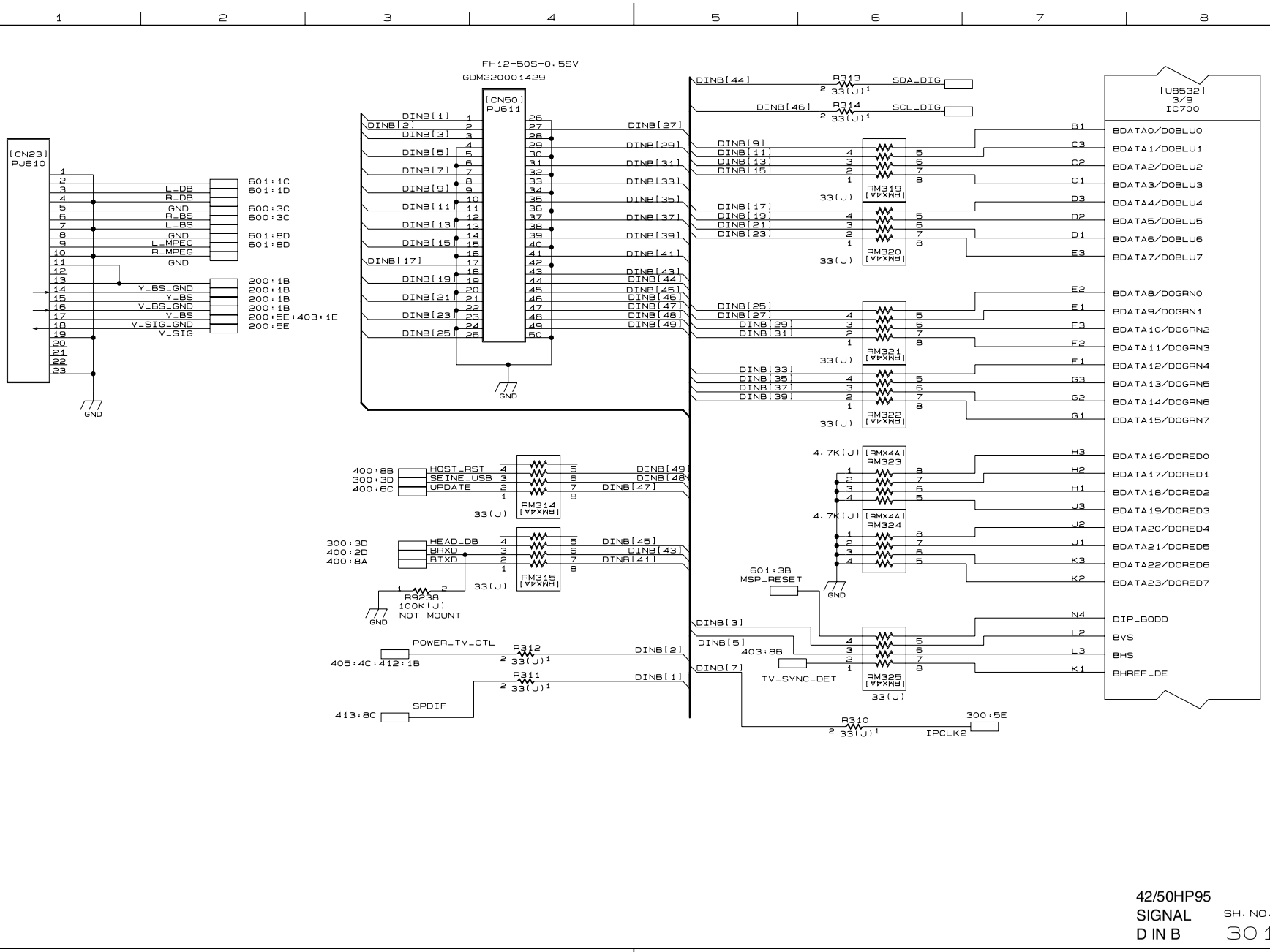

4400mA
3300mA
TO DB
TO FAN
TO POD FAN
TO AV
TO POWER
TO POWER
FAN_VCC
GND
STOP_FAN
42/50HP95
LOWB


1:SCL1
2:SDA1
3:POD_STOP_FAN
4:AV/S_DET1
5:MONI_SW
6:AFT1
7:NC
8:EPG_SW
9:V_MONI
10:GND
11:V_EPG
12:NC
13:GND
14:V_DGT
15:RET
16:GND
17:Pr_DVD/SY_E2
18:GND
19:Pb_DVD/SC_E3
20:GND
21:G_PC
22:GND
23:V_TV
24:RET
25:GND
26:V_E2
27:GND
28:R_PC
29:GND
30:Pr_CS
31:GND
32:SY_E1
33:RET
34:GND
35:B_PC
36:GND
37:Y_CS
38:GND
39:NC/V_E3
40:GND
41:SC_E1
42:RET
43:GND
44:NC/SC_E2
45:GND
46:Pb_CS
47:GND
48:V_E1
49:GND
50:Y_DVD/SY_E3
G36220157026
PJ22
[CN50]
V_BS
V_BS_GND
Y_BS
Y_BS_GND
SDA1
SCL1
GP1
GP2
GP3
GP4
GP5
GP6
[UB532]
1/9
IC700
A1P
A2P
A3P
A4P
AN
B1P
B2P
B3P
B4P
BN
C1P
C2P
C3P
C4P
CN
SV1P
SV2P
SV3P
SV4P
SVN
NC
VOUT2
AIP_RAW_HS_CS
AIP_RAW_VS
EXT_OSD_VS
EXT_OSD_HS
EXT_OSD_CLK
V_TV
AV/S_DET1
HD_Dsub
VD_Dsub
S1/S2_DET
V_SIG
V_SIG_GND
V_SYNC_SEPA
AV/S_DET2
AV/S_DET3
MPZ2012S221AT
FL201
CQ2001
24C4116-Y(TE85L,F)
42/50HP95
SIGNAL
ANALOG IN
SH. NO.
200



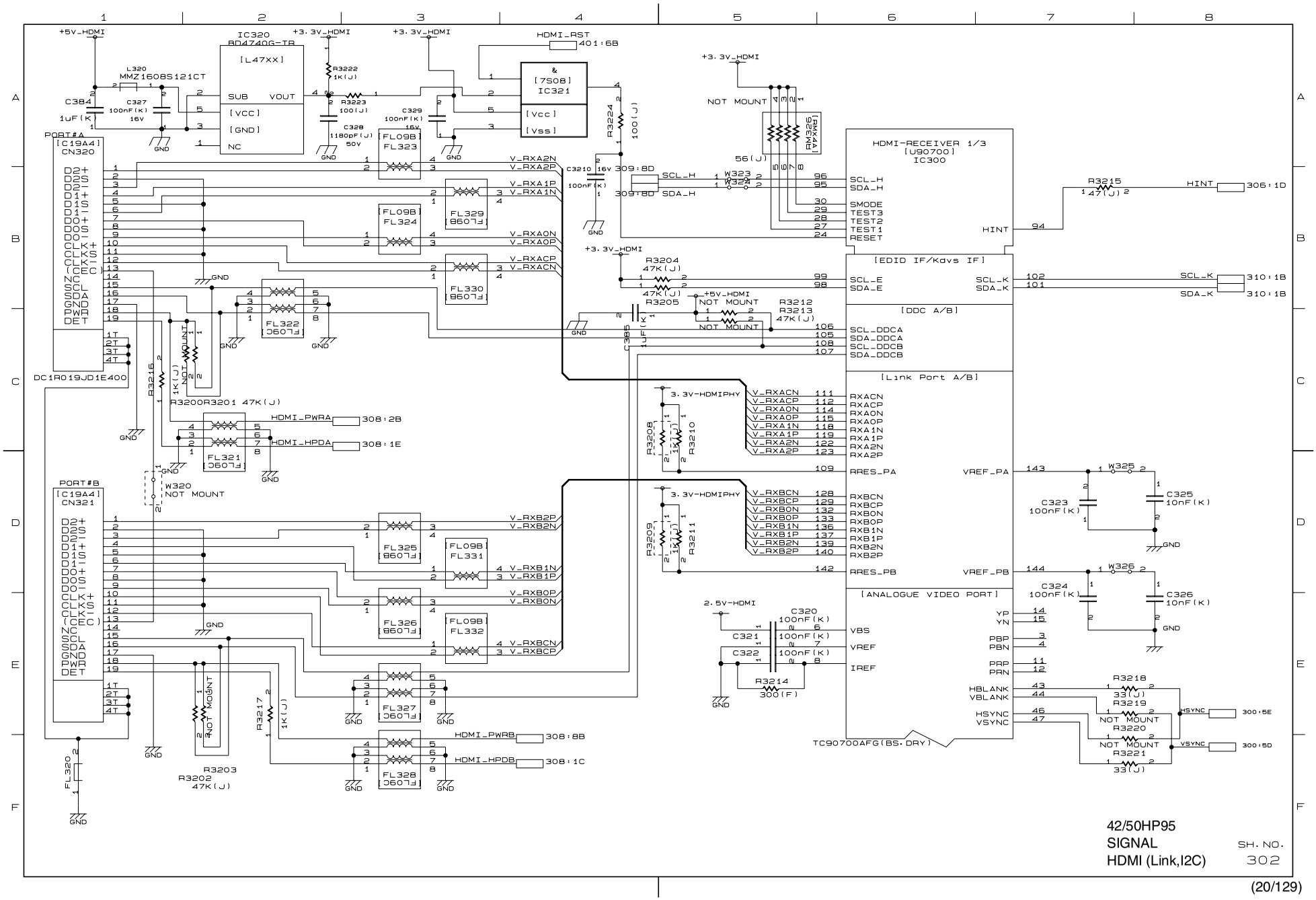
42/50HP95
SIGNAL
D IN A

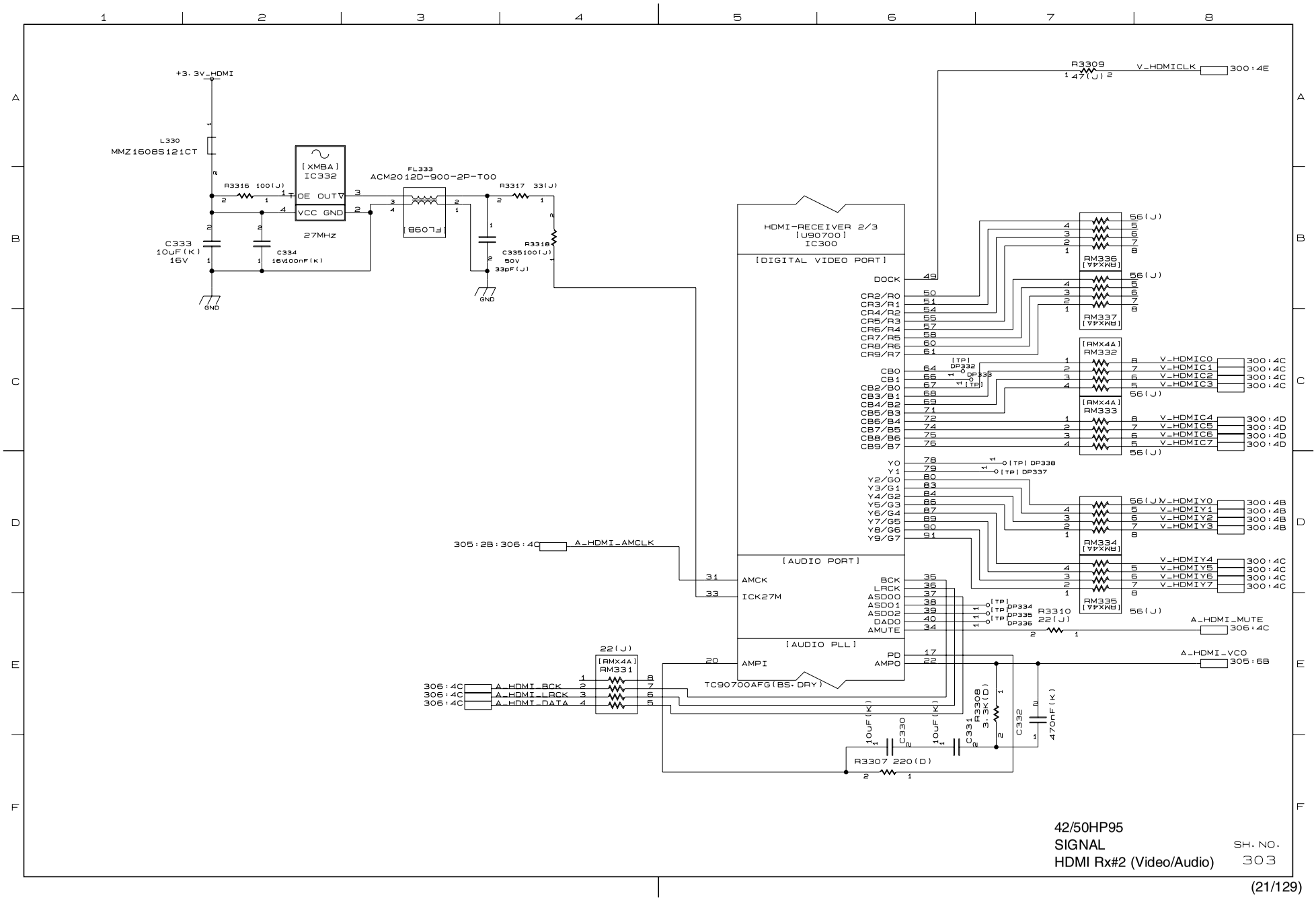
SH. NO.
300



42/50HP95
SIGNAL
D IN B

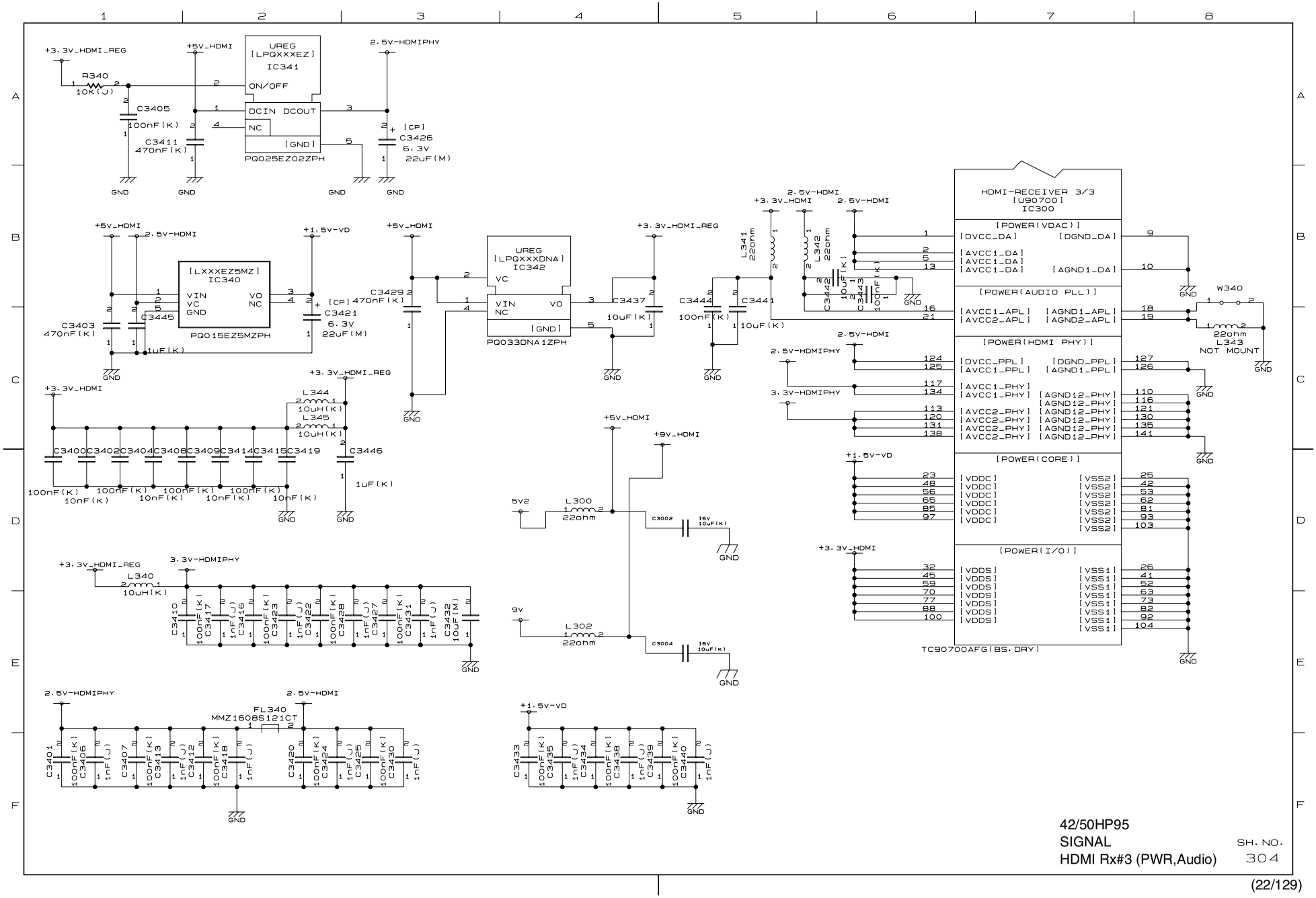
SH. NO.
301


HDMI-RECEIVER 1/3
[U90700]
IC300
TC90700AFG(BS.DRY)
[EDID IF/Kdvs IF]
[DDC A/B]
[Link Port A/B]
[ANALOGUE VIDEO PORT]
PORT#A
PORT#B
DC1R019JD1E400
HDMI_RST
HINT
SCL_K
SDA_K
HSYNC
VSYNC
42/50HP95
SIGNAL
HDMI (Link,I2C)
SH. NO.
302



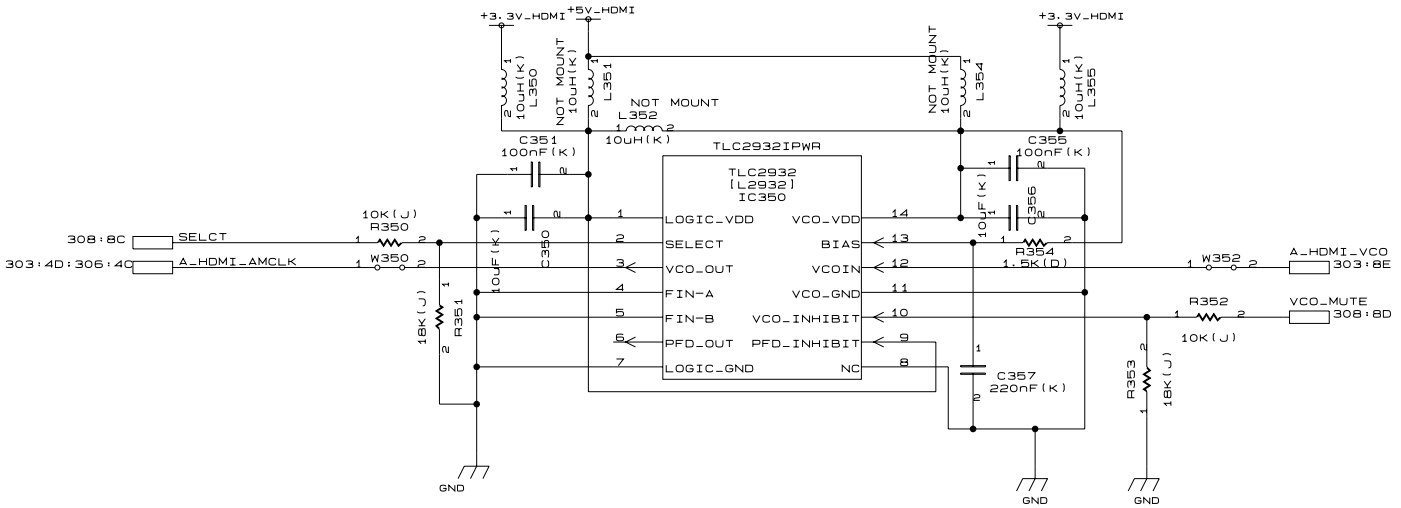
42/50HP95
SIGNAL
HDMI Rx#2 (Video/Audio)

SH. NO.
303



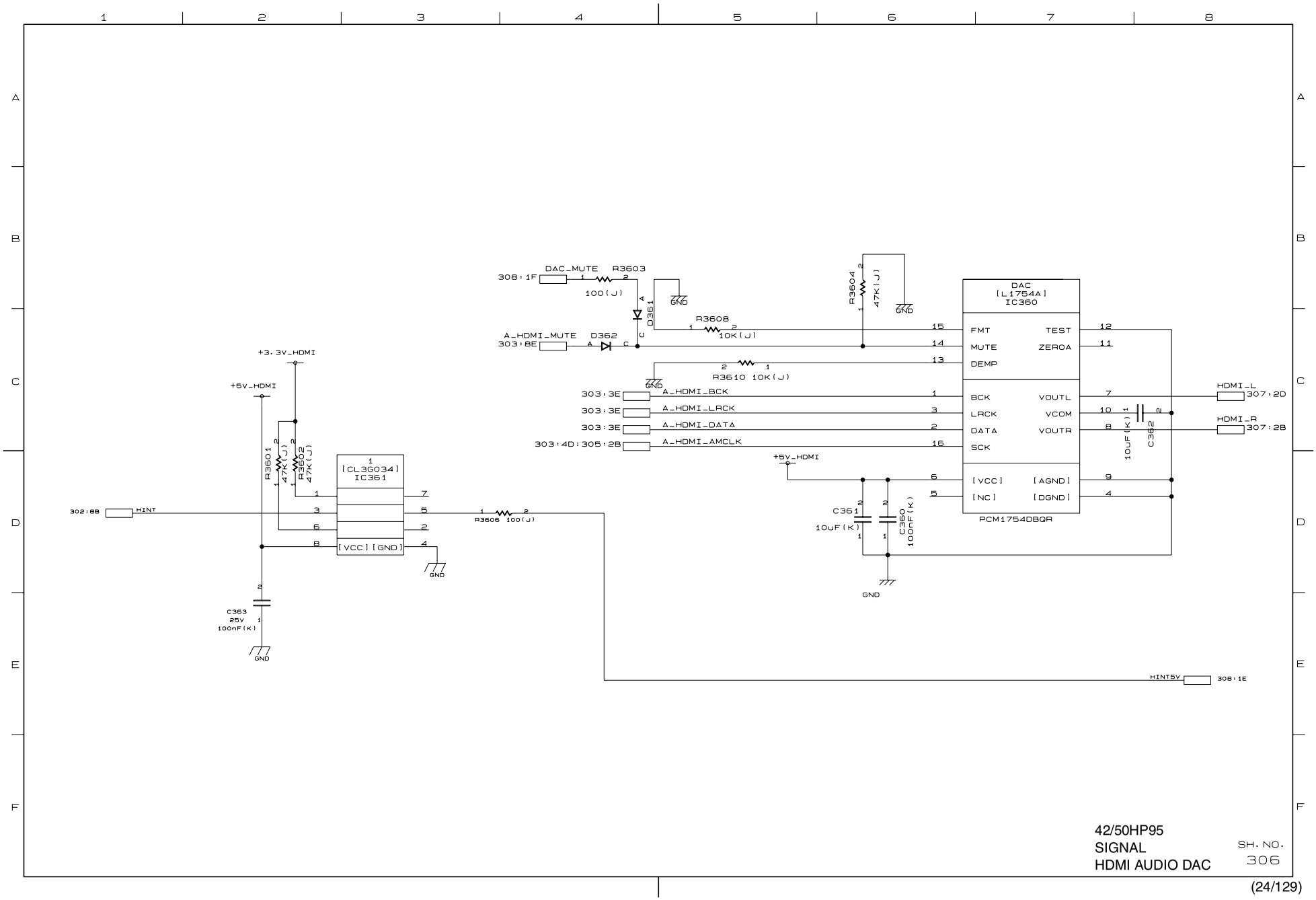
42/50HP95
SIGNAL
HDMI Rx#3 (PWR,Audio)

SH. NO.
304



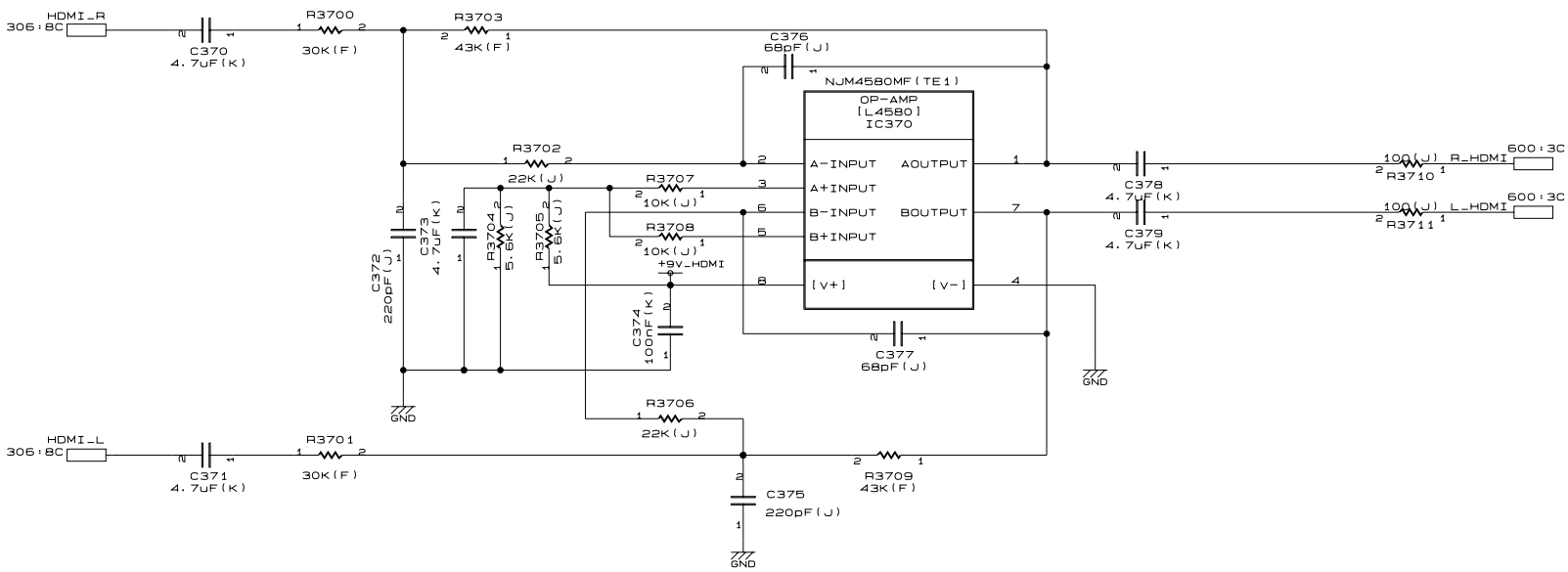
42/50HP95
SIGNAL
HDMI AUDIO PLL

SH. NO.
305



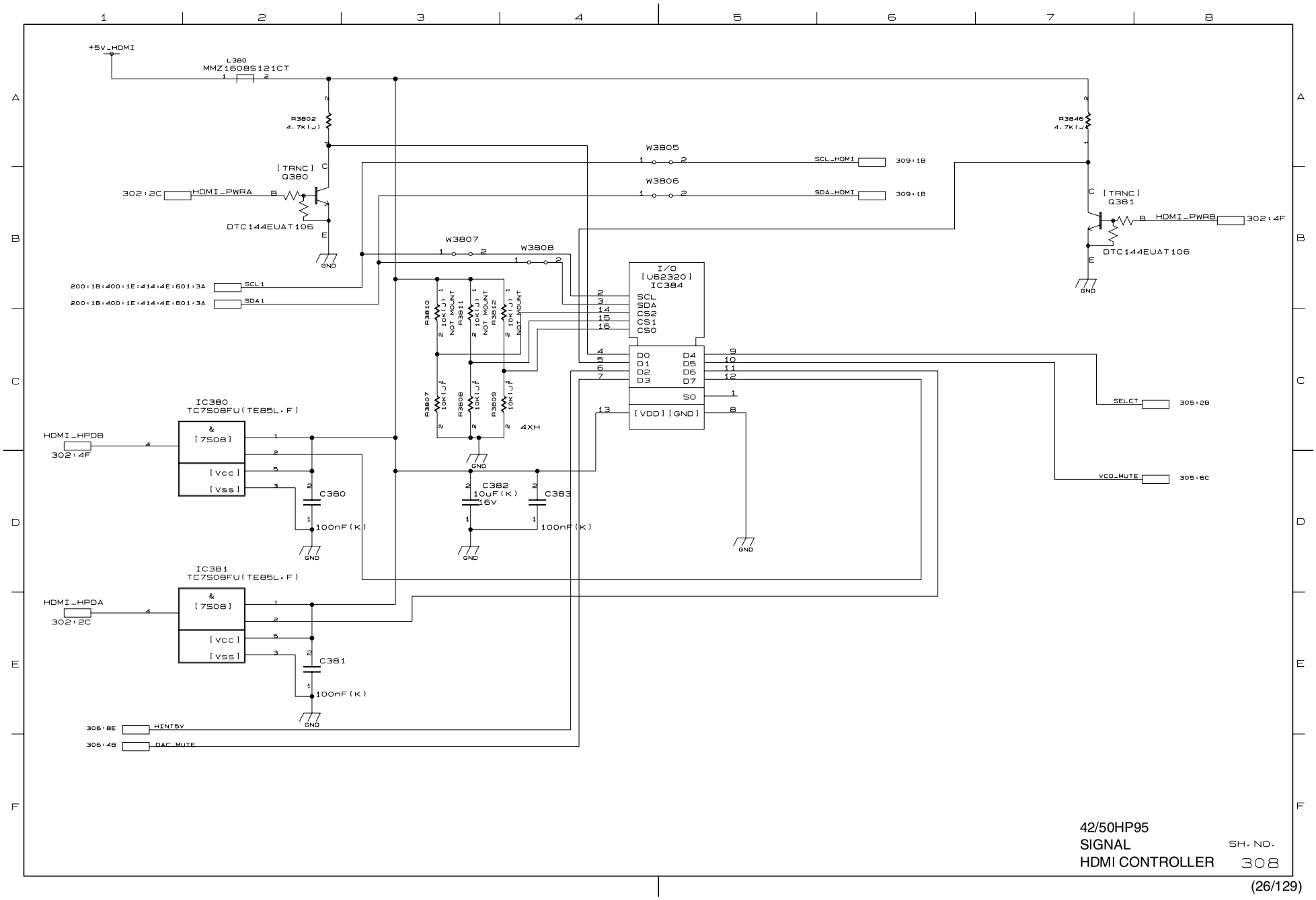
42/50HP95
SIGNAL
HDMI AUDIO DAC

SH. NO.
306

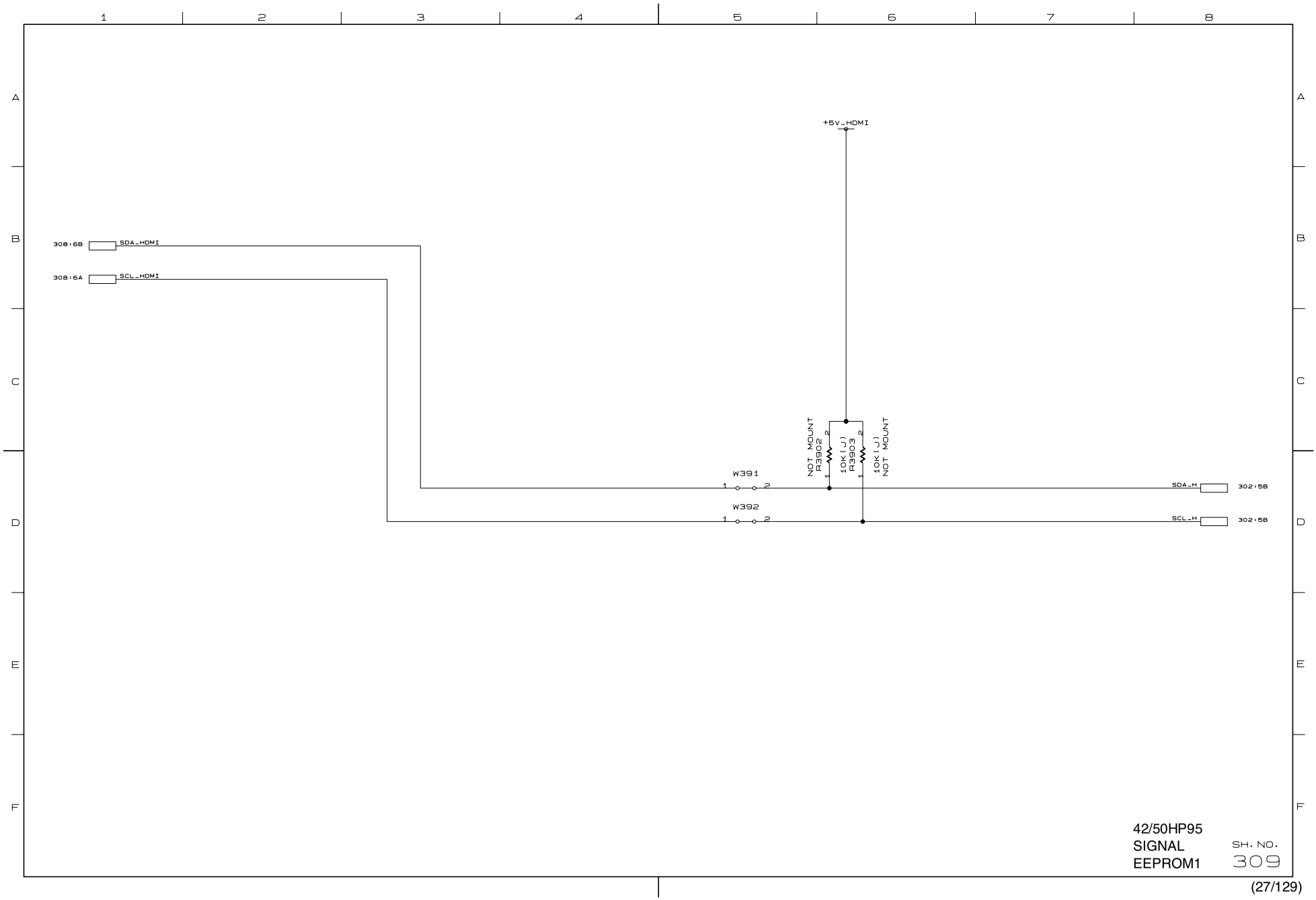


42/50HP95
SIGNAL
HDMI AUDIO OUT

SH. NO.
307

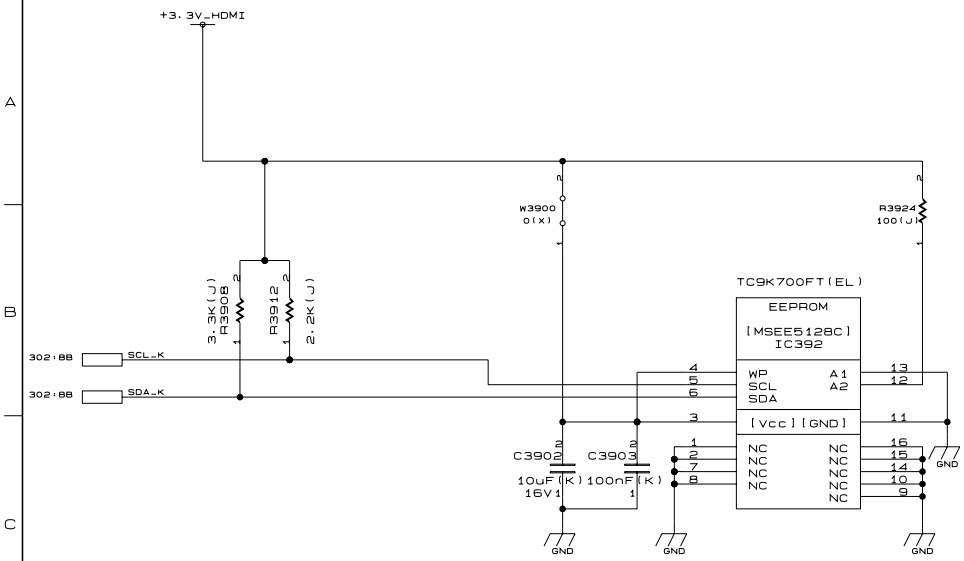


42/50HP95
SIGNAL
HDMI CONTROLLER
SH. NO.
308



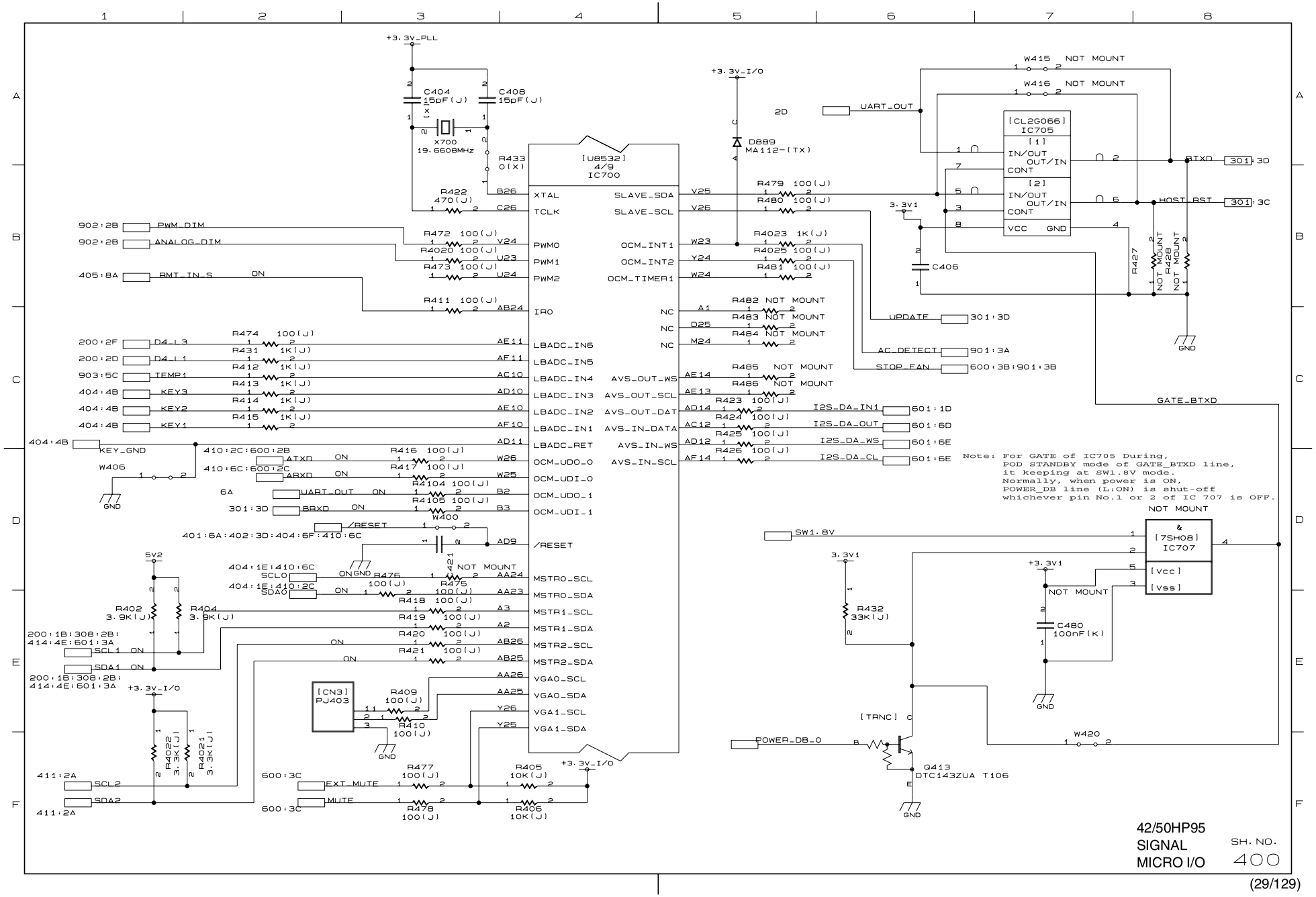
42/50HP95
SIGNAL
EEPROM1

SH. NO.
309



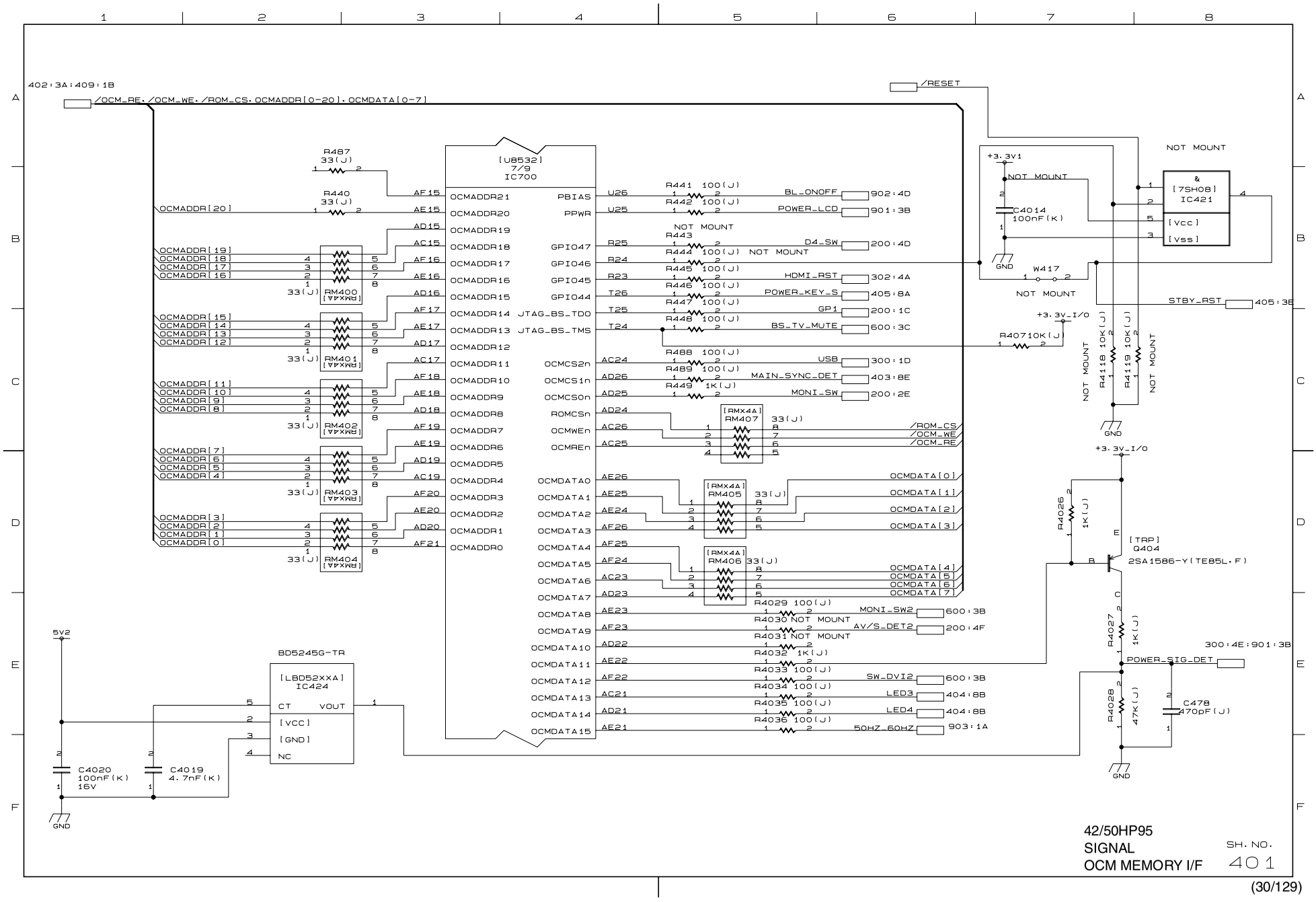
42/50HP95
SIGNAL
EEPROM2

SH. NO.
310



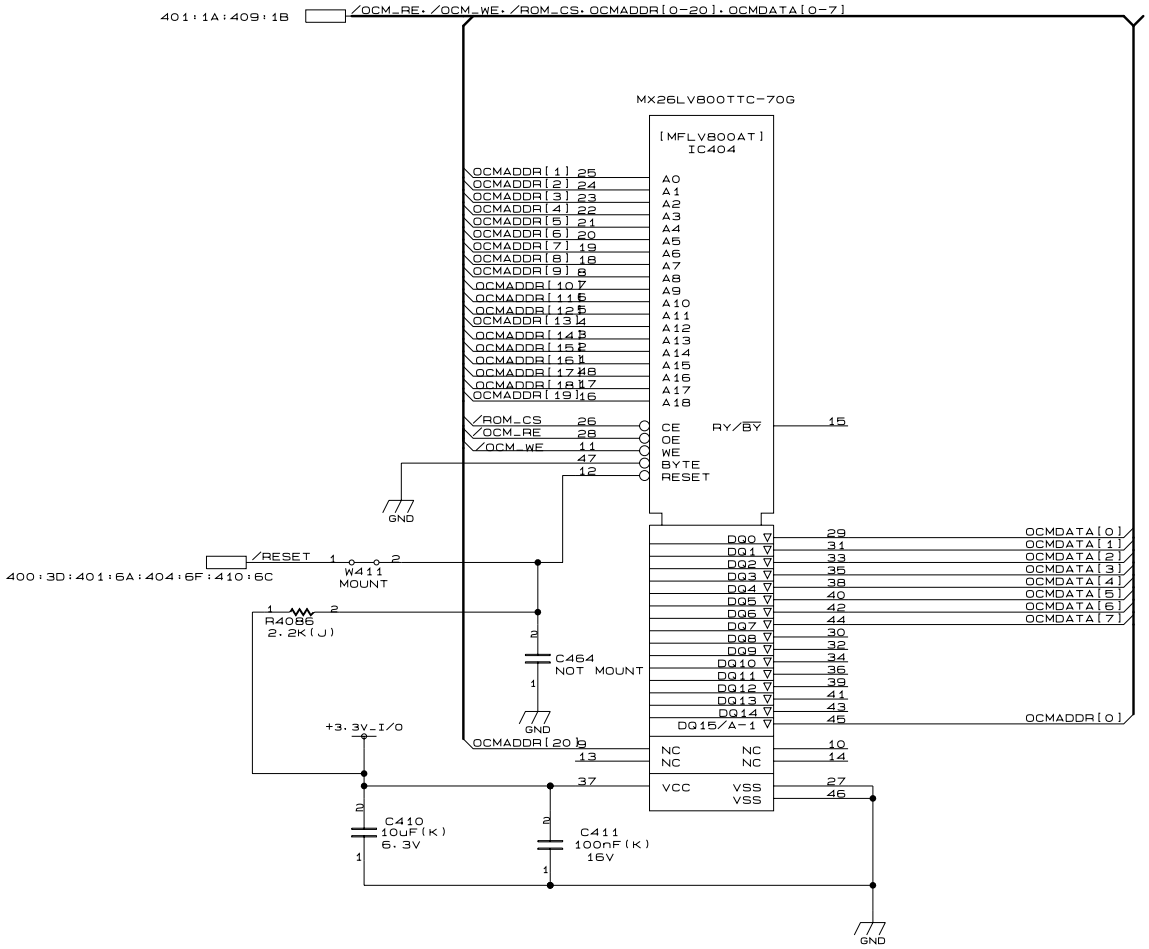
42/50HP95
SIGNAL
MICRO I/O

SH. NO.
400



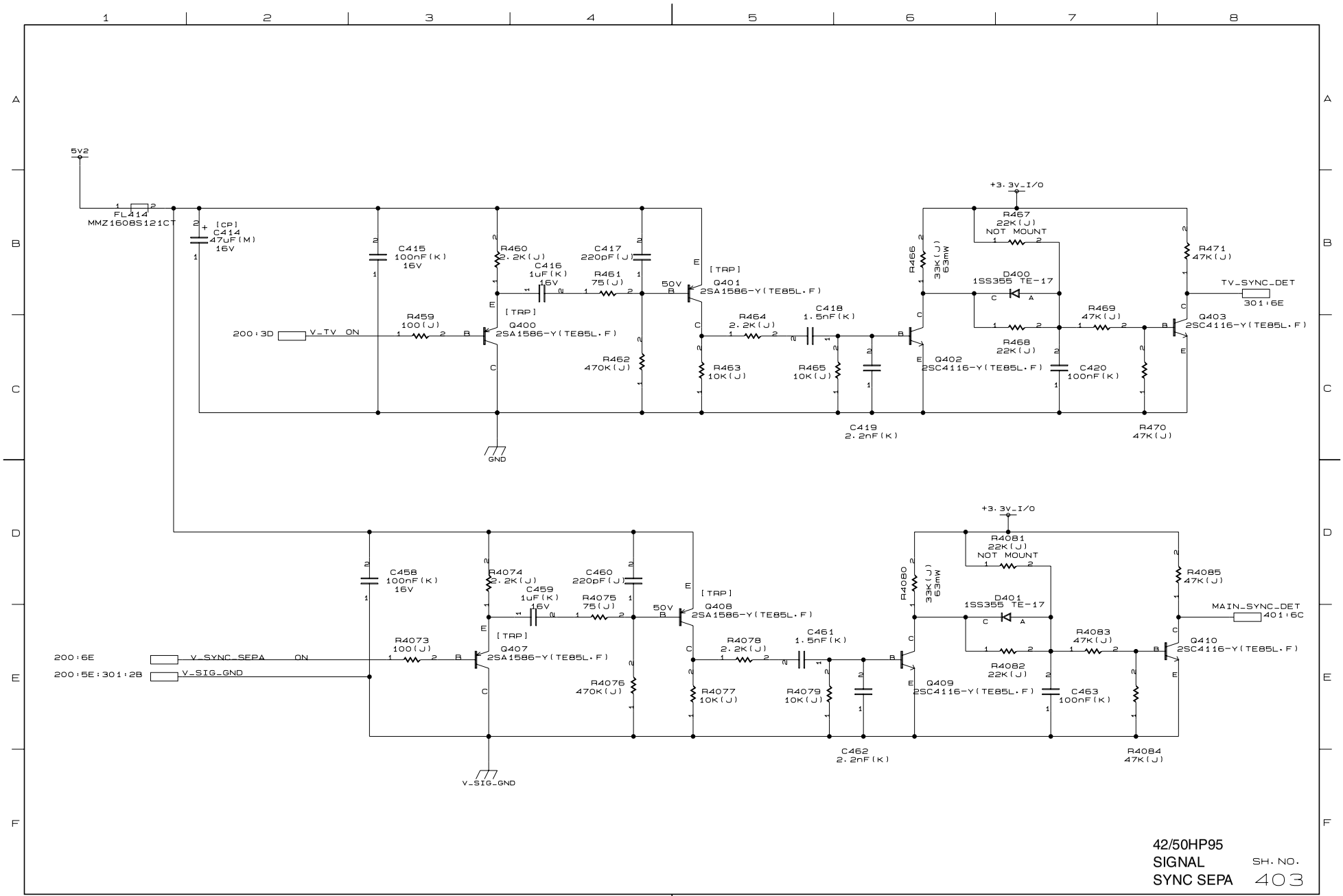
42/50HP95
SIGNAL
OCM MEMORY I/F

SH. NO.
401

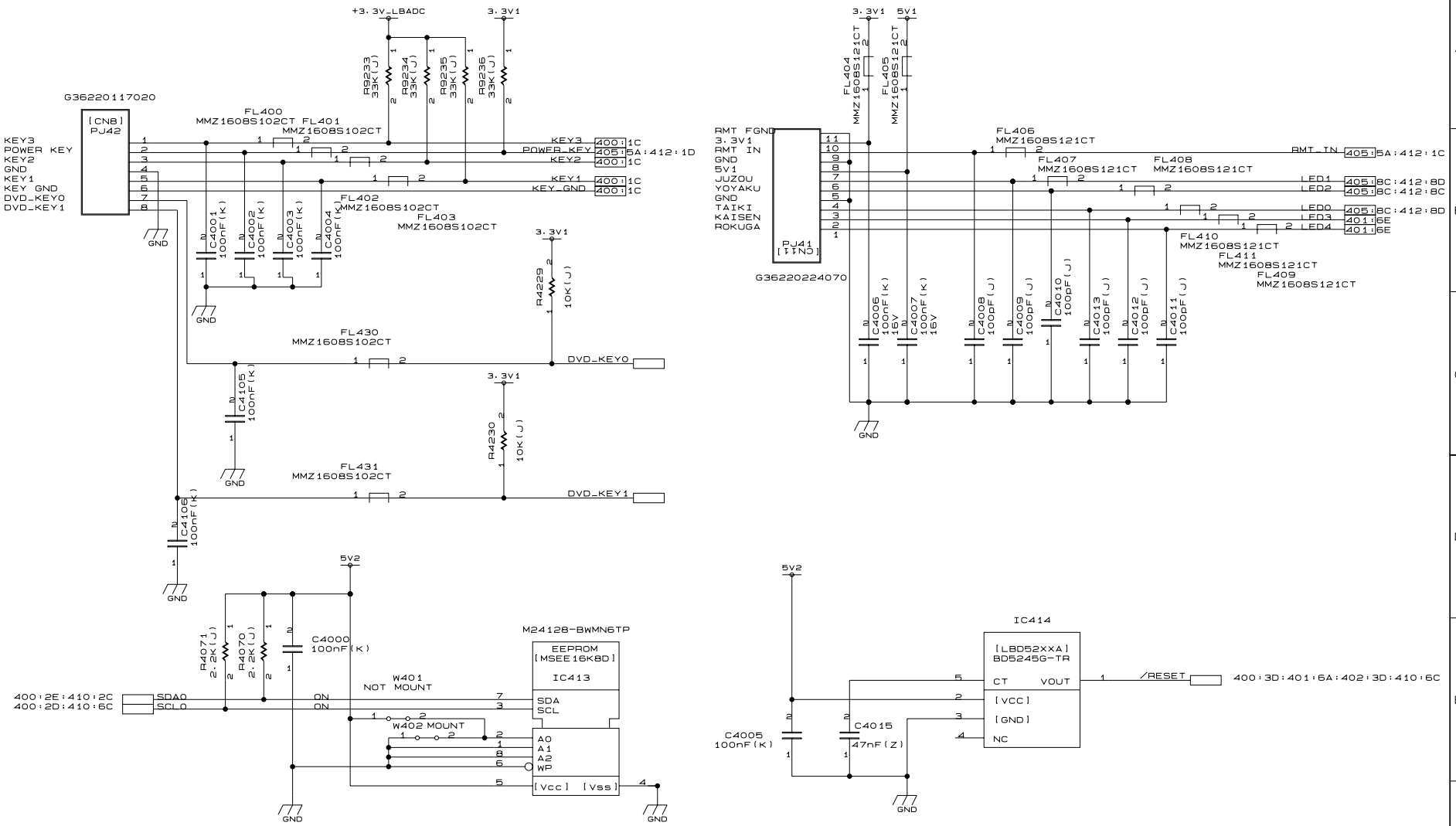


42/50HP95
SIGNAL
FLASH MEMORY

SH. NO.
402

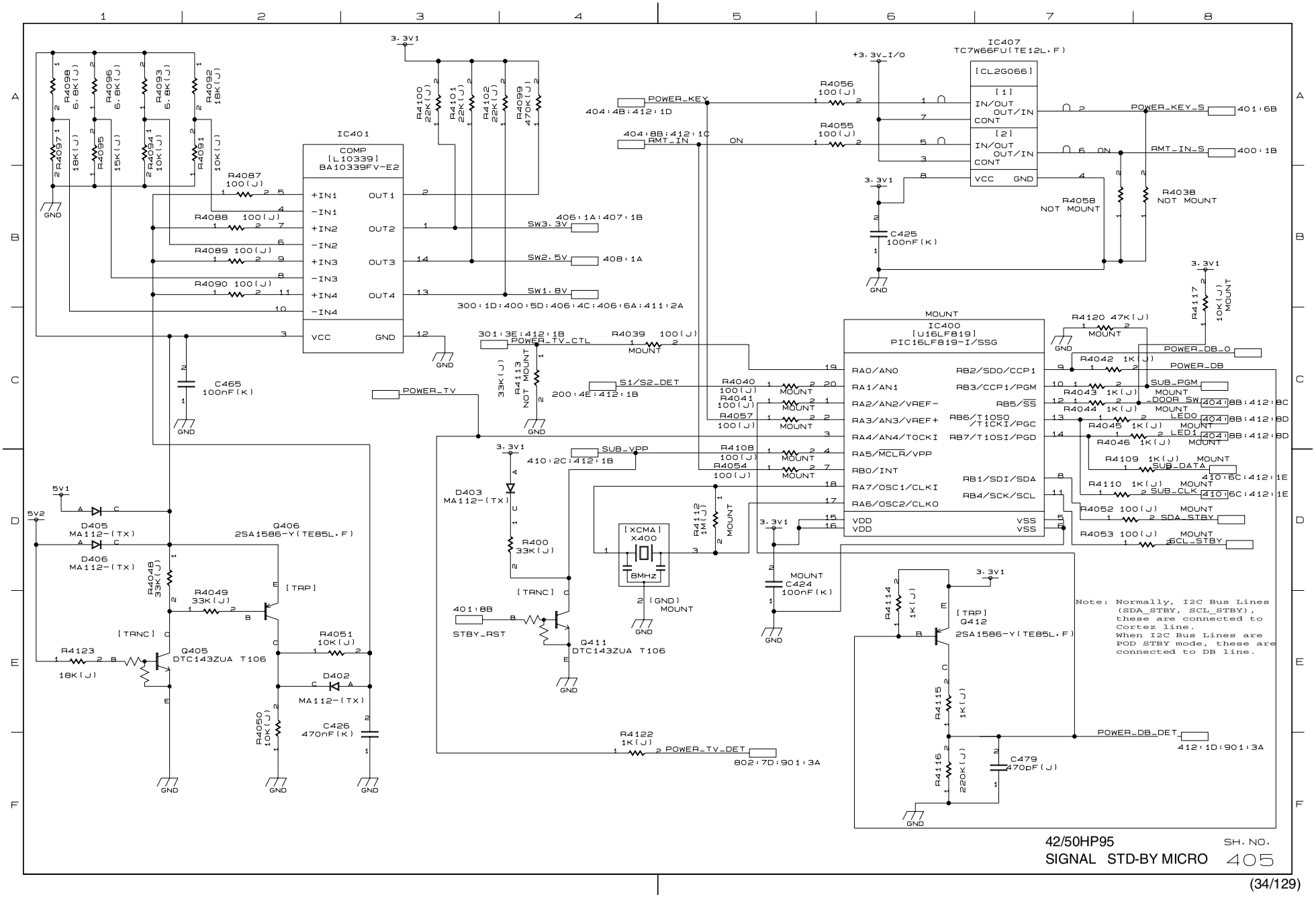


42/50HP95
SIGNAL SYNC SEPA
SH. NO. 403



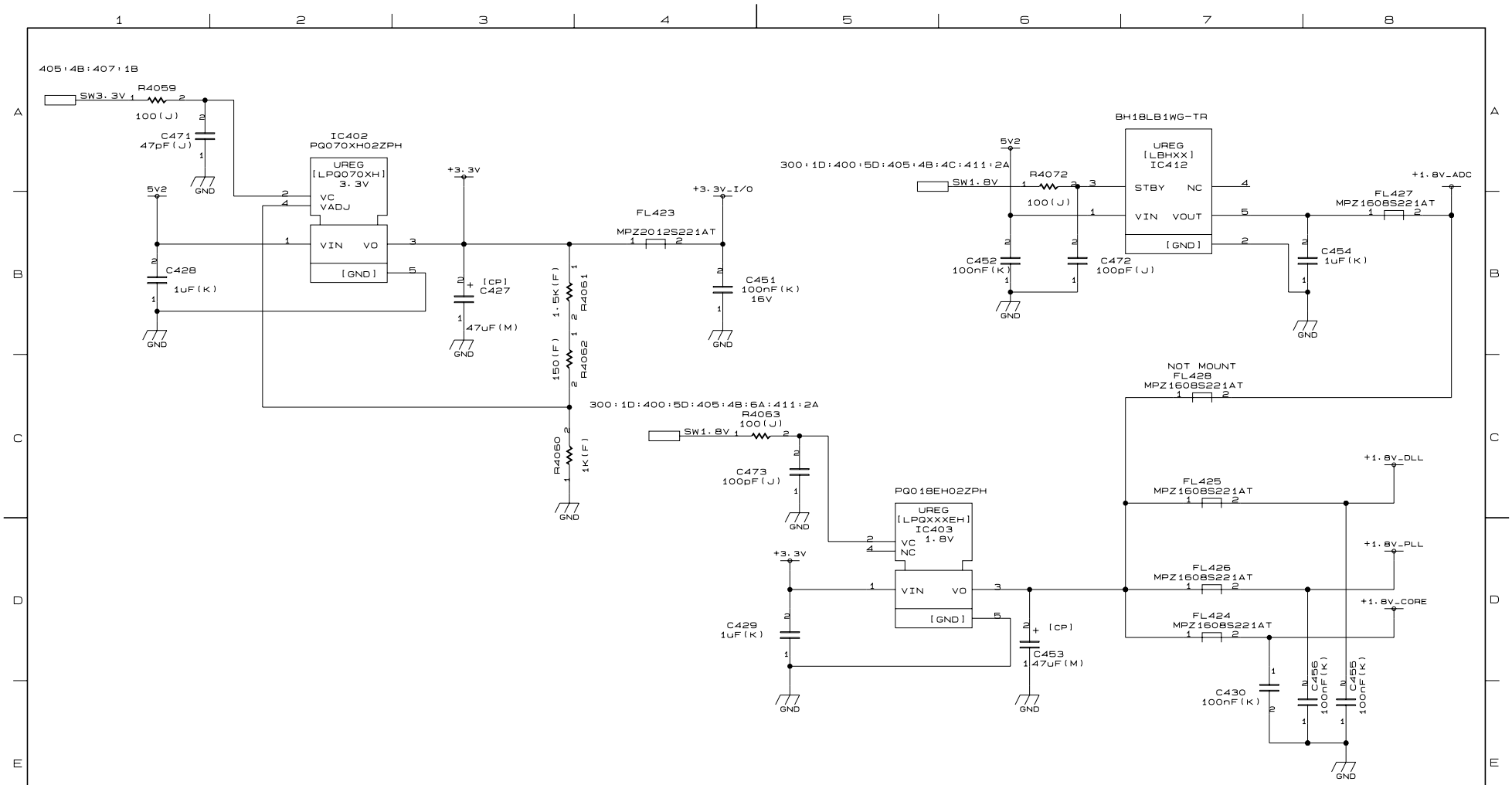
42/50HP95
SIGNAL
E2P OTHER

SH. NO.
404



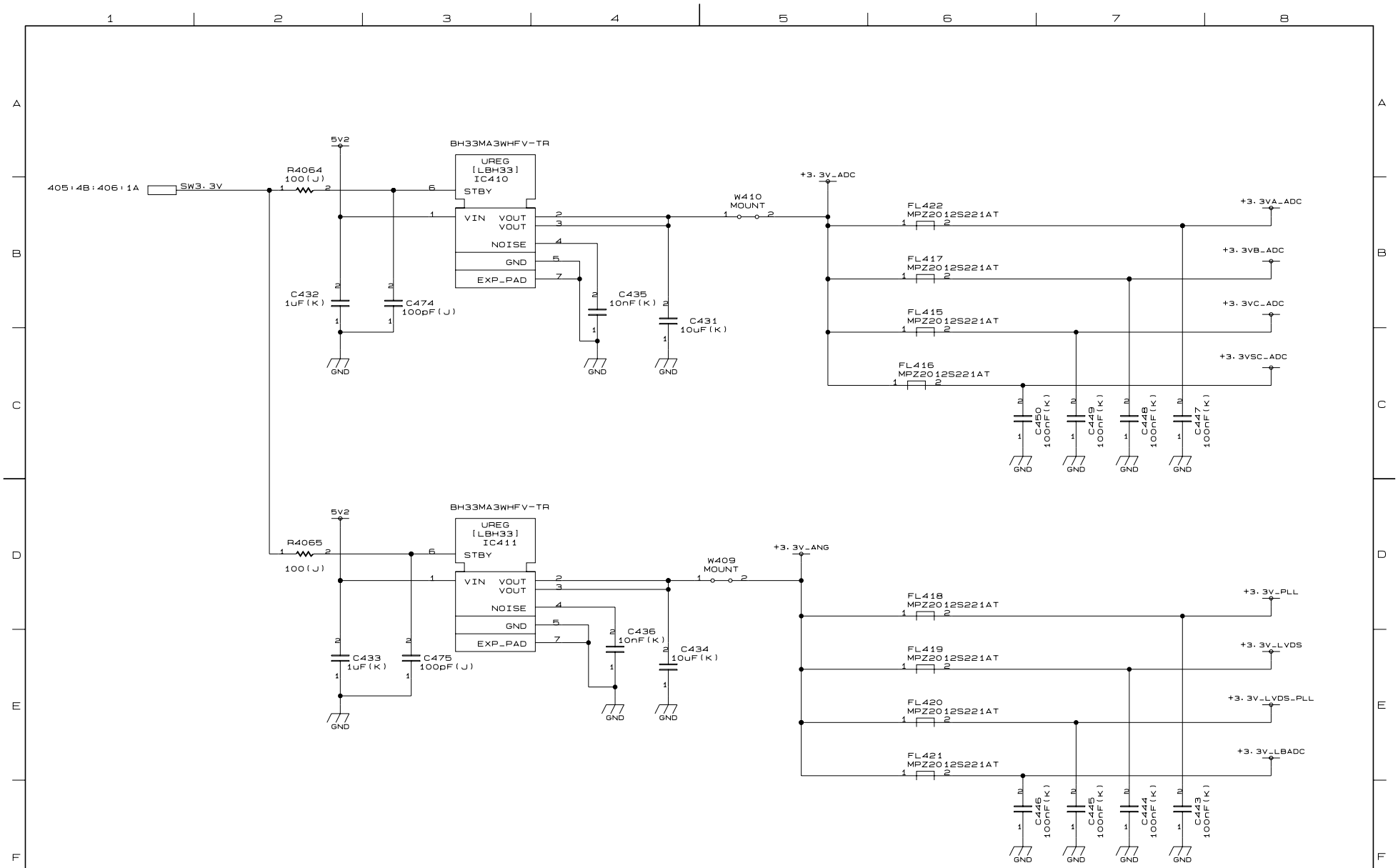
42/50HP95 SH. NO.

SIGNAL STD-BY MICRO 405



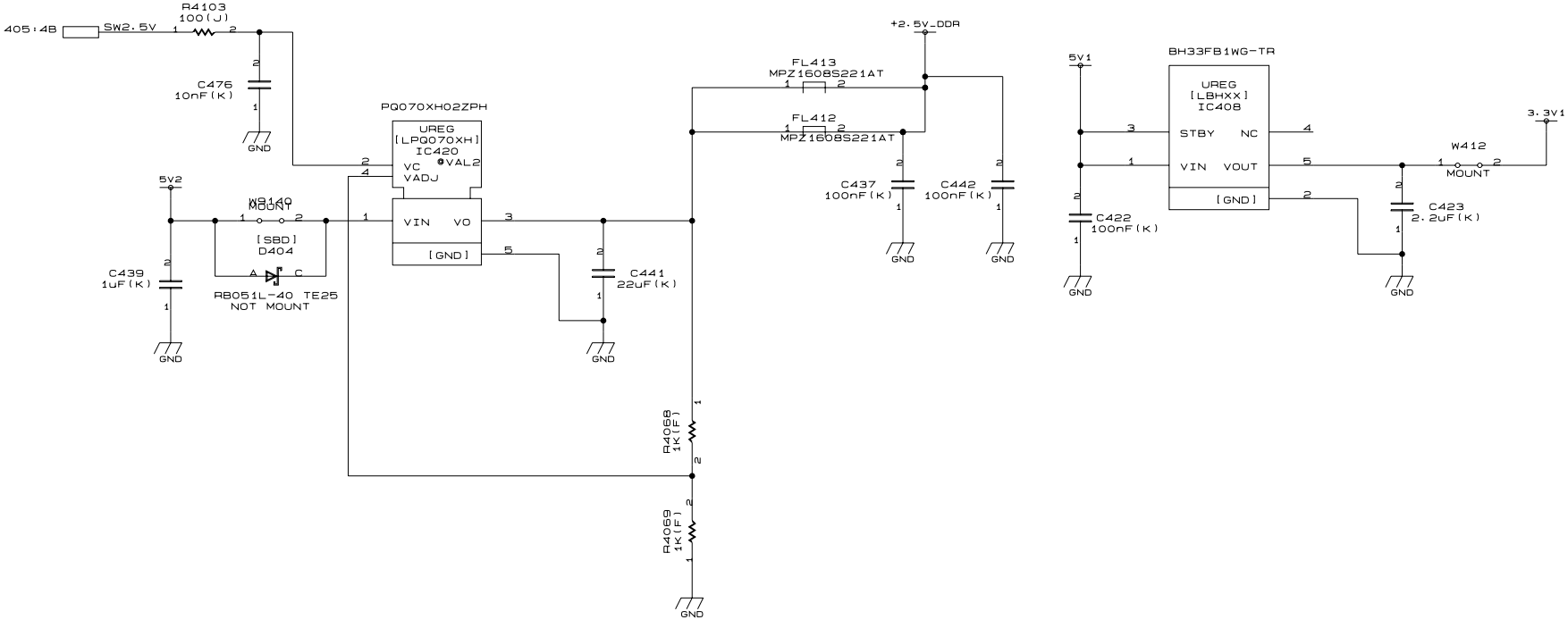
42/50HP95
SIGNAL
CORTEZ REG 1

SH. NO.
406



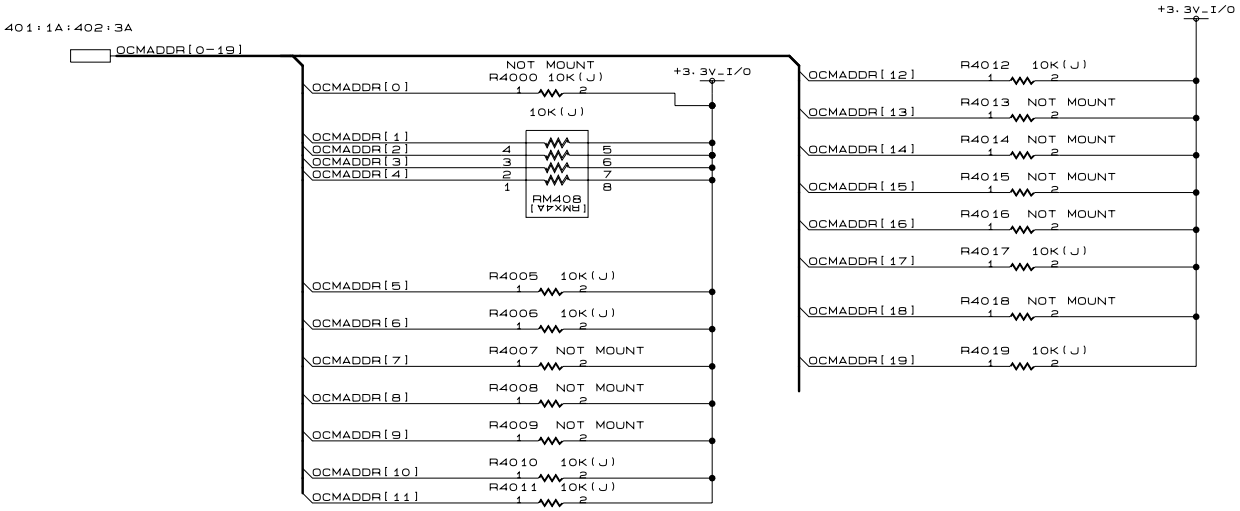
42/50HP95
SIGNAL
CORTEZ REG 2

SH. NO.
407



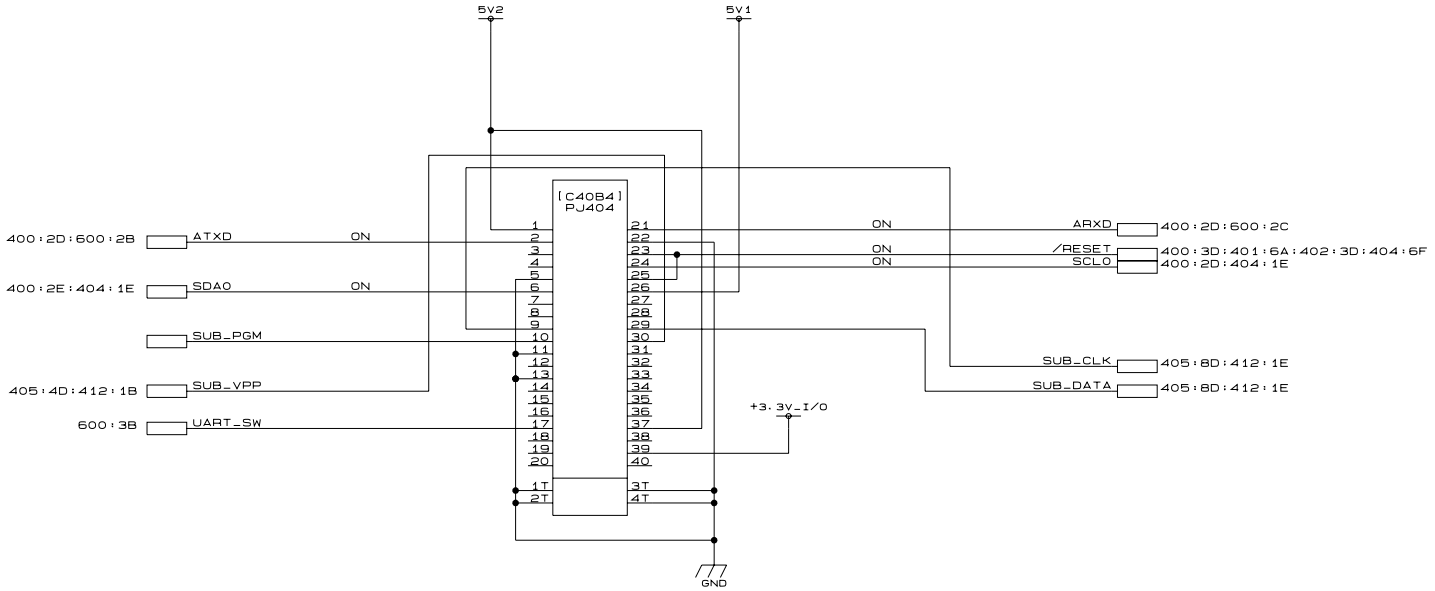
42/50HP95
SIGNAL
CORTEZ REG 3

SH. NO.
408



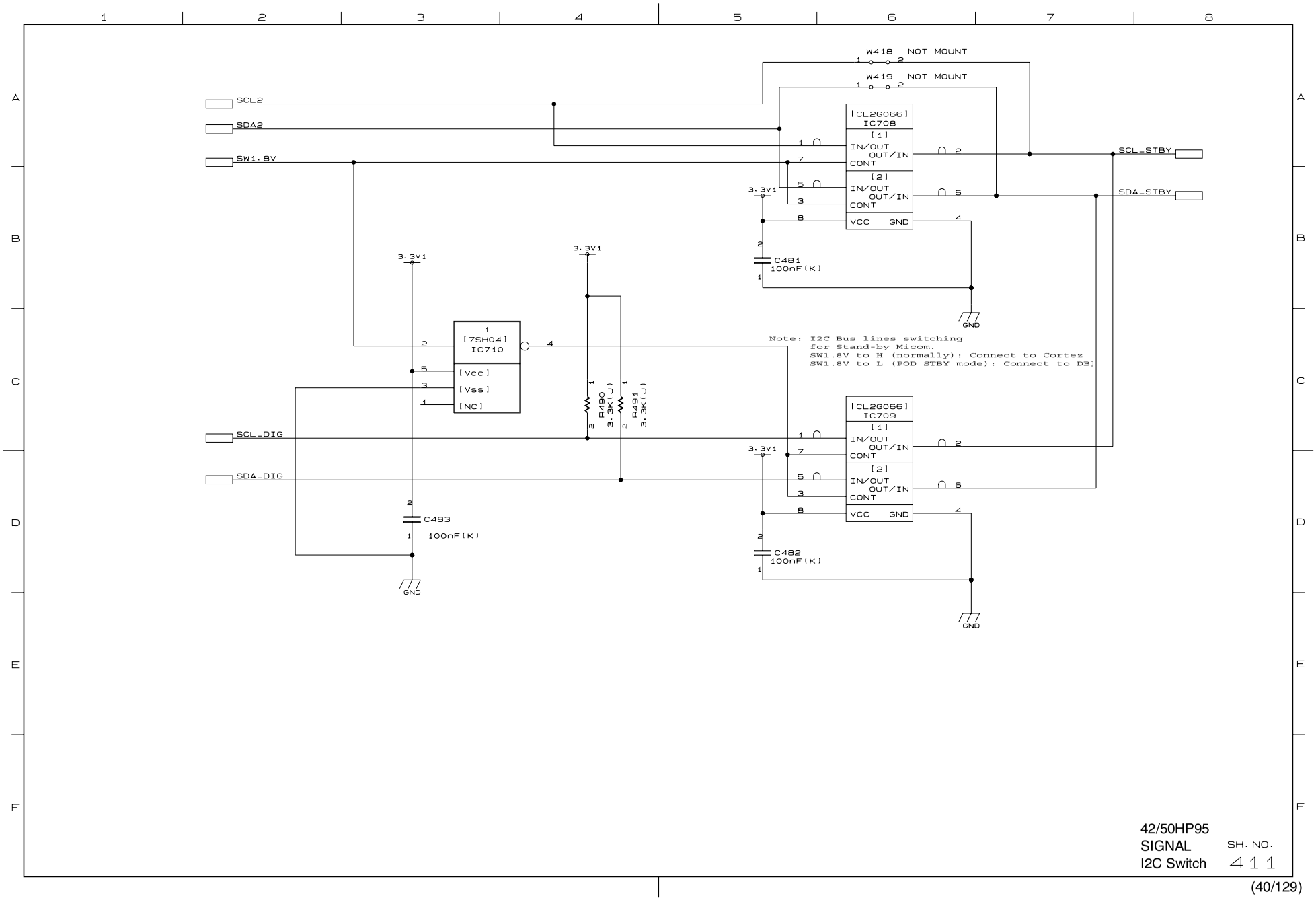
42/50HP95
SIGNAL
BOOT CONFIG

SH. NO.
409



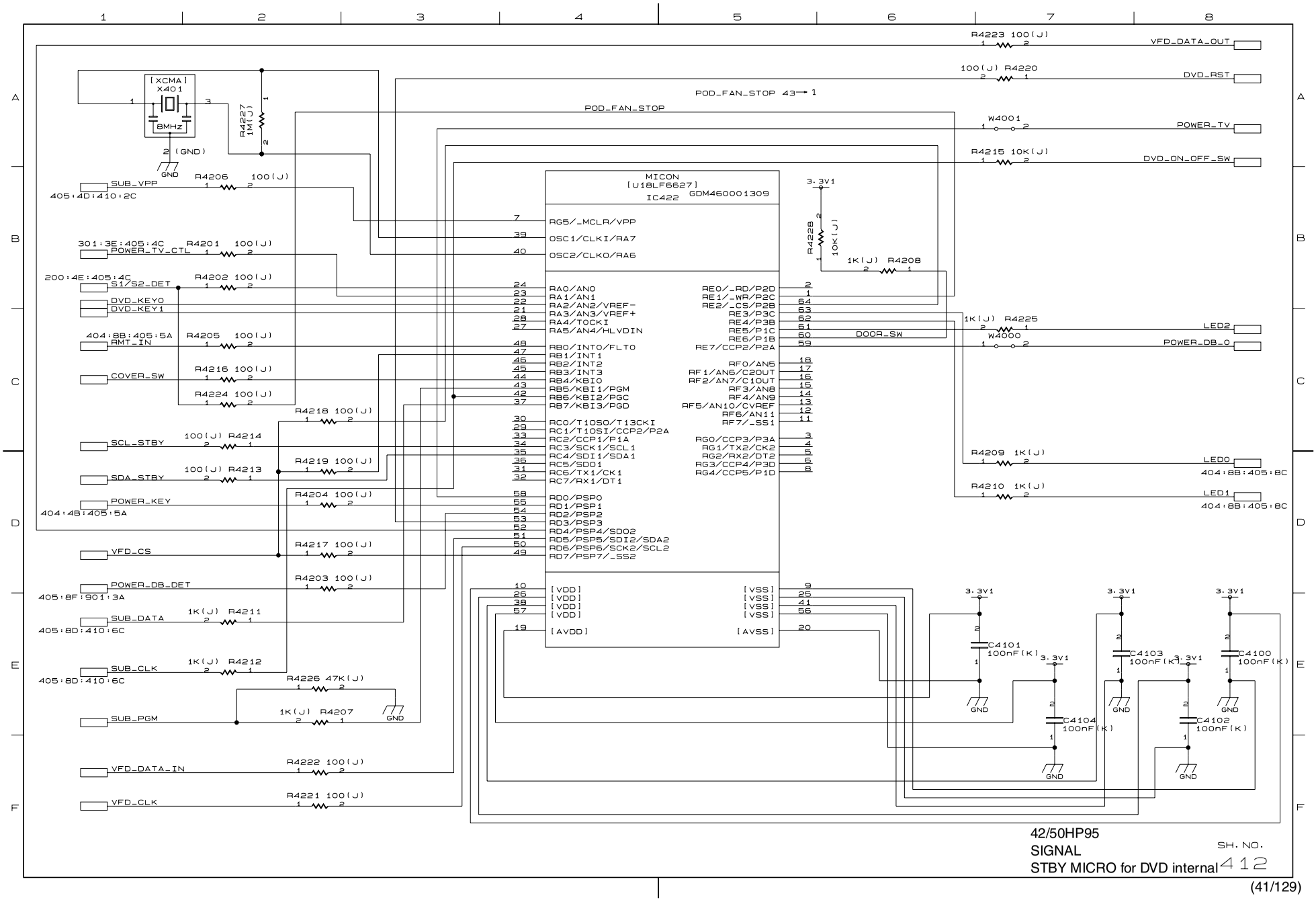
42/50HP95
SIGNAL
SERVICE CONNECTOR

SH. NO.
410



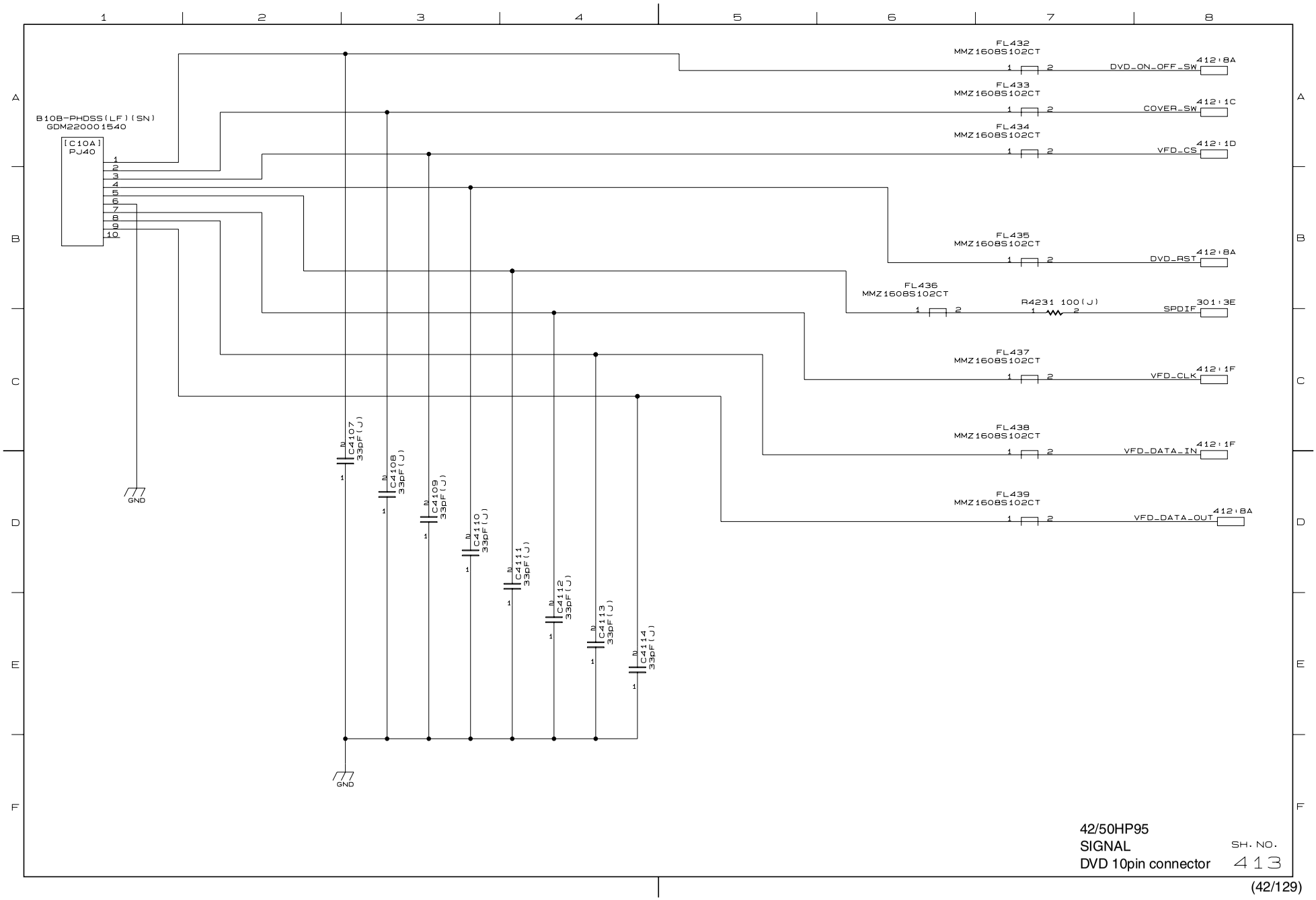
42/50HP95
SIGNAL
I2C Switch

SH. NO.
411



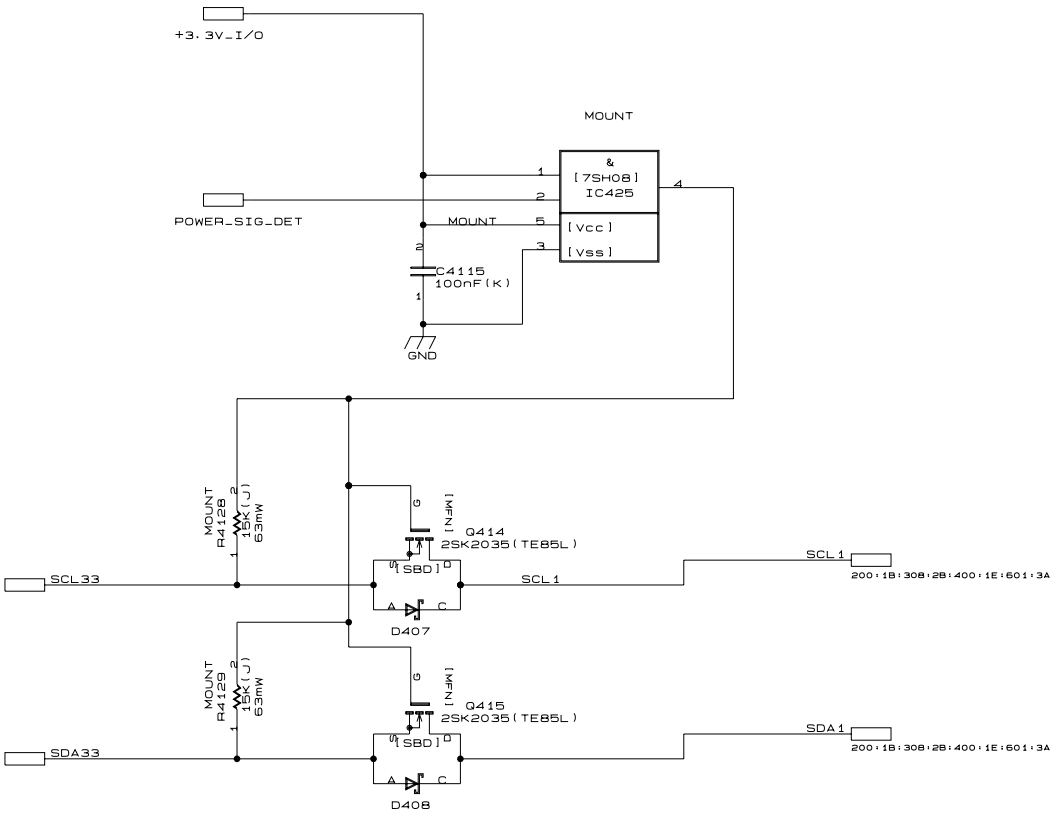
42/50HP95
SIGNAL
STBY MICRO for DVD internal

SH. NO.
412

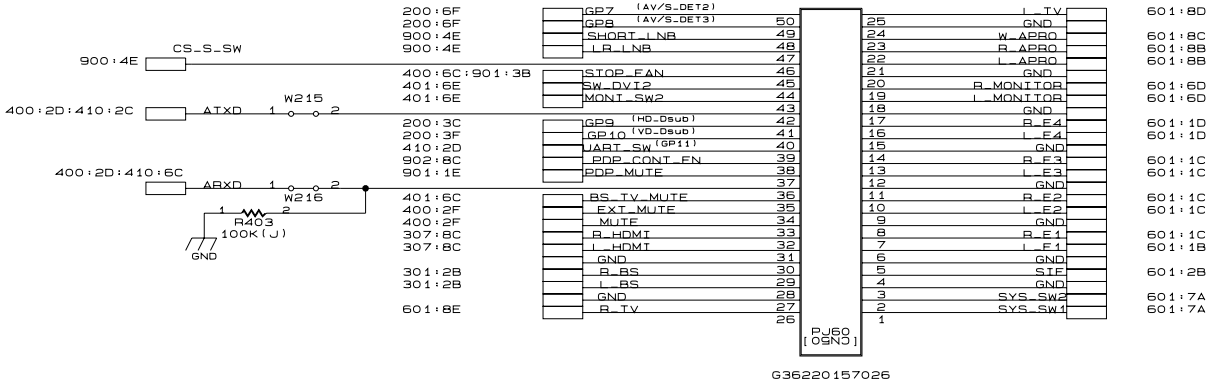


42/50HP95
SIGNAL
DVD 10pin connector

SH. NO.
413



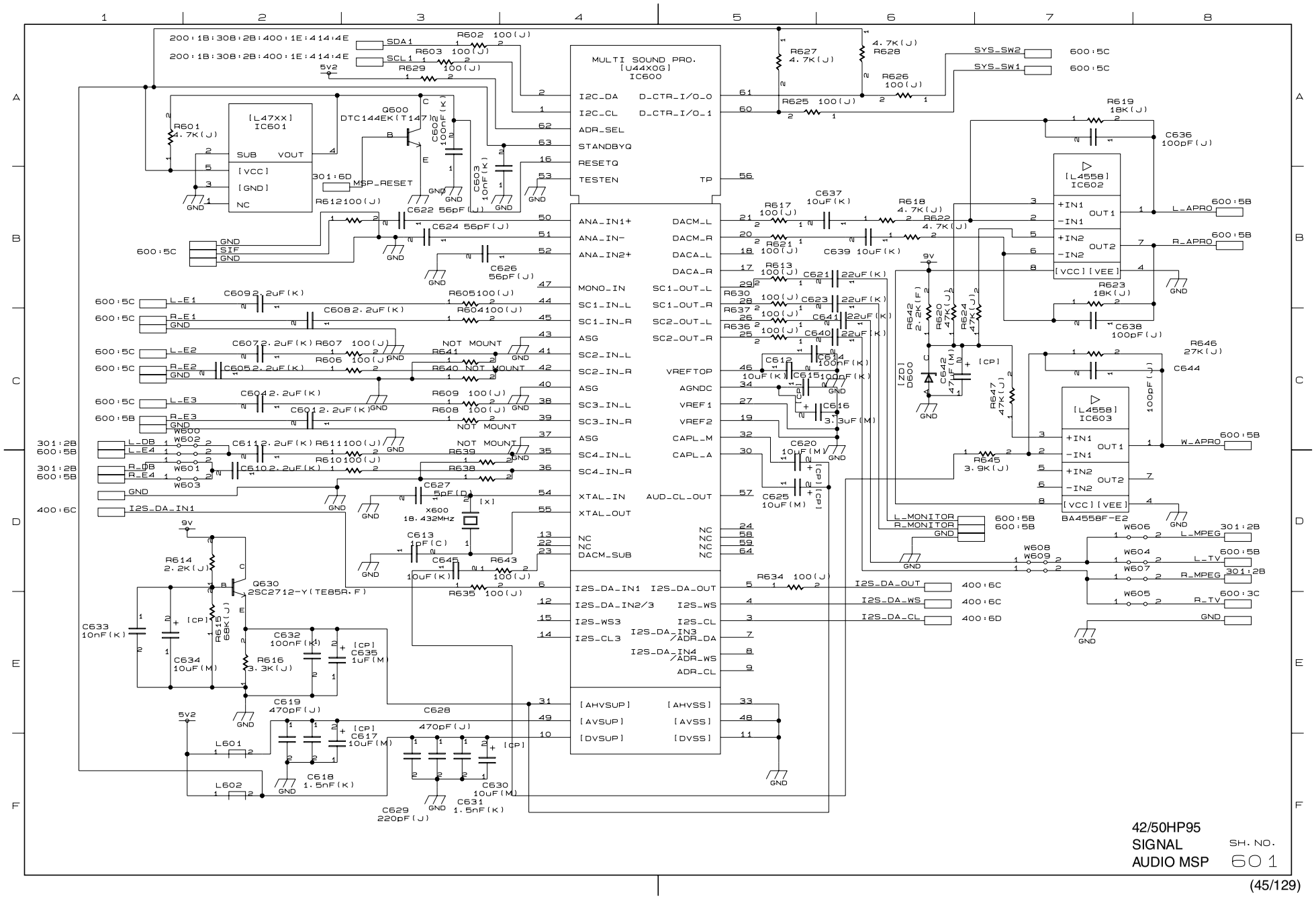
42/50HP95
SIGNAL SH. NO.
I2C Level shift 414



G36220157026

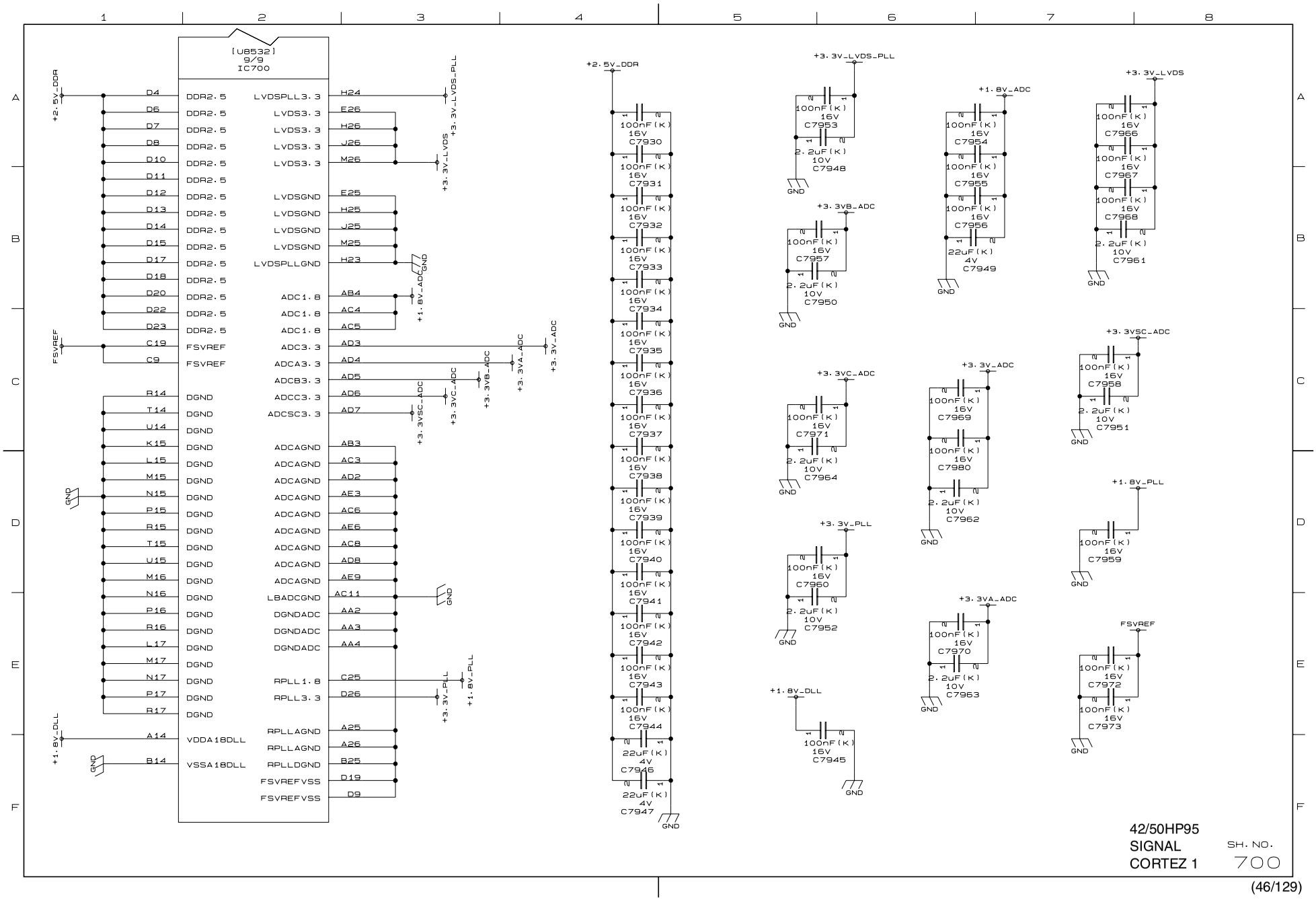
42/50HP95
SIGNAL
AUDIO

SH. NO.
600



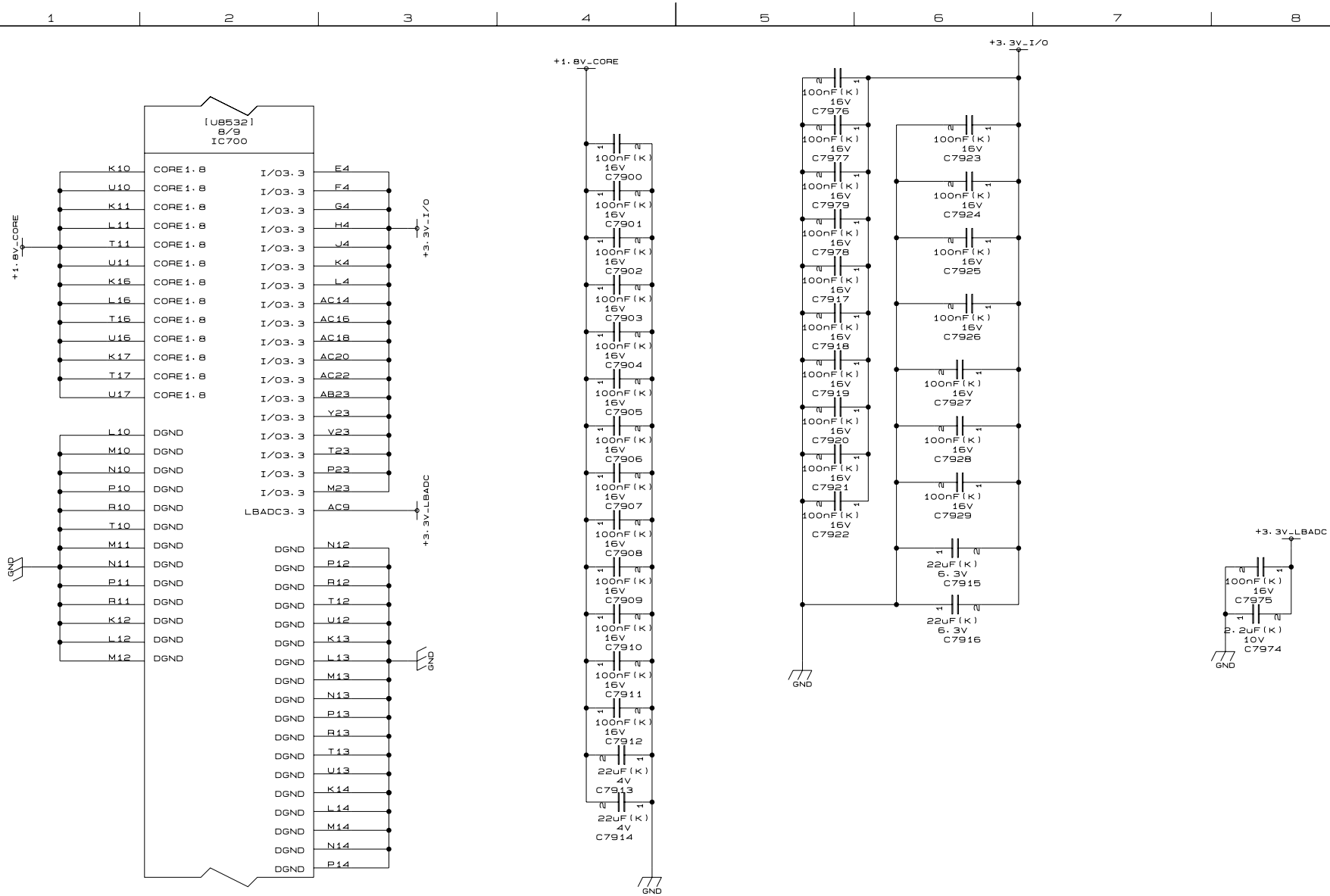
42/50HP95
SIGNAL
AUDIO MSP

SH. NO.
601



42/50HP95
SIGNAL
CORTEZ 1

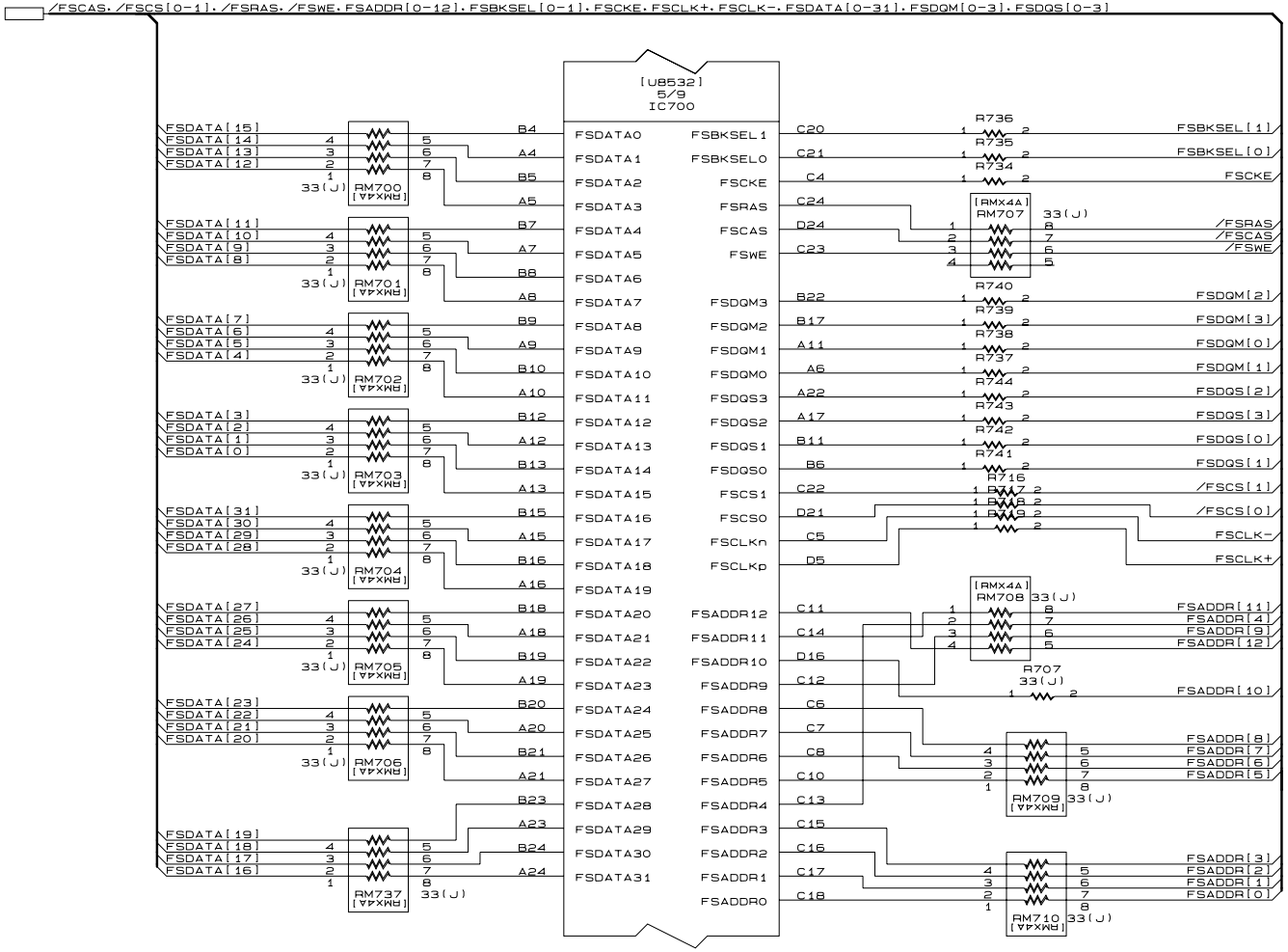
SH. NO.
700



42/50HP95
SIGNAL
CORTEZ 2

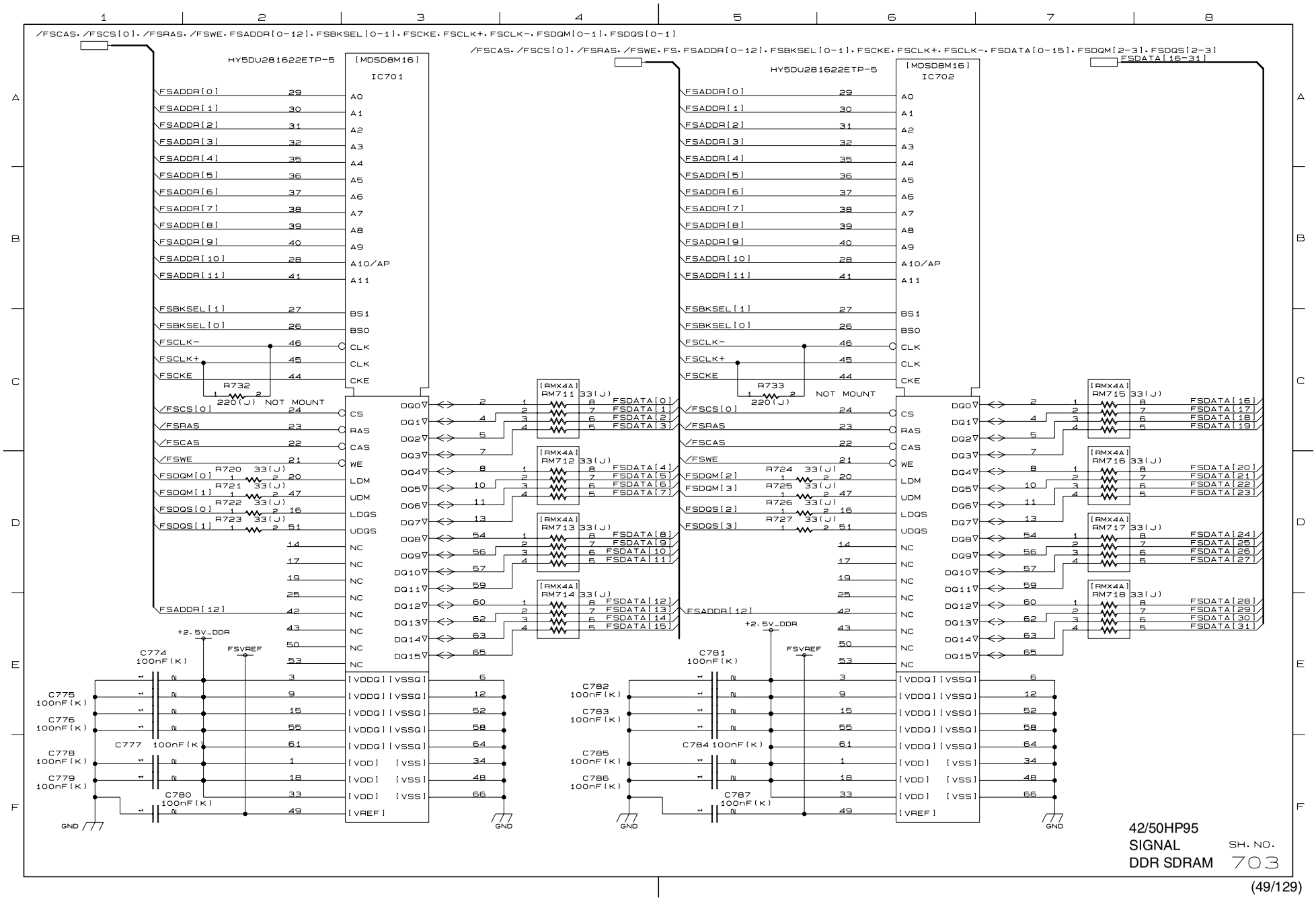
SH. NO.
701

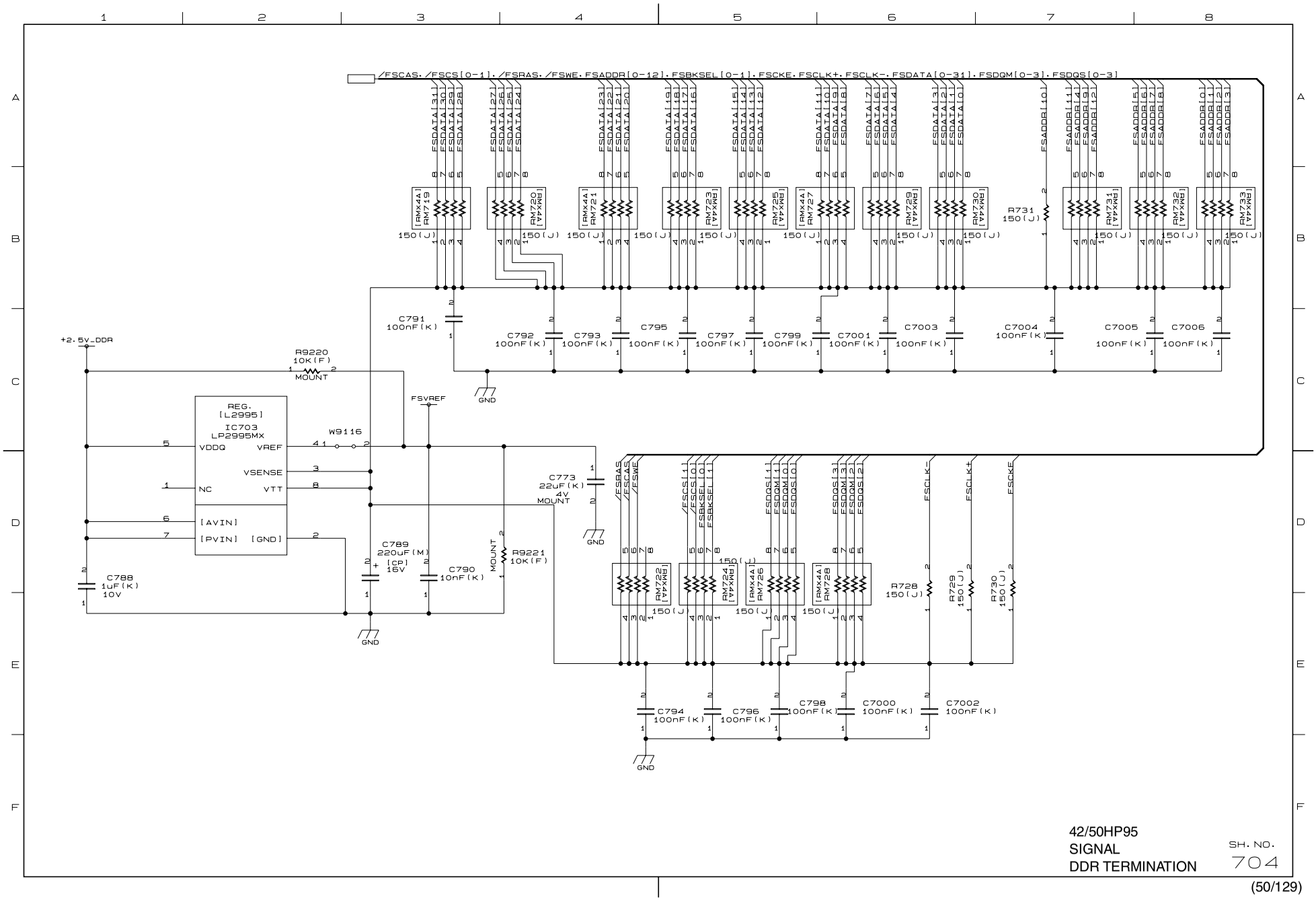
/FSCAS. /FSCS[0-1]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDATA[0-31]. FSDQM[0-3]. FSDQS[0-3]



42/50HP95
SIGNAL
DDR I/F

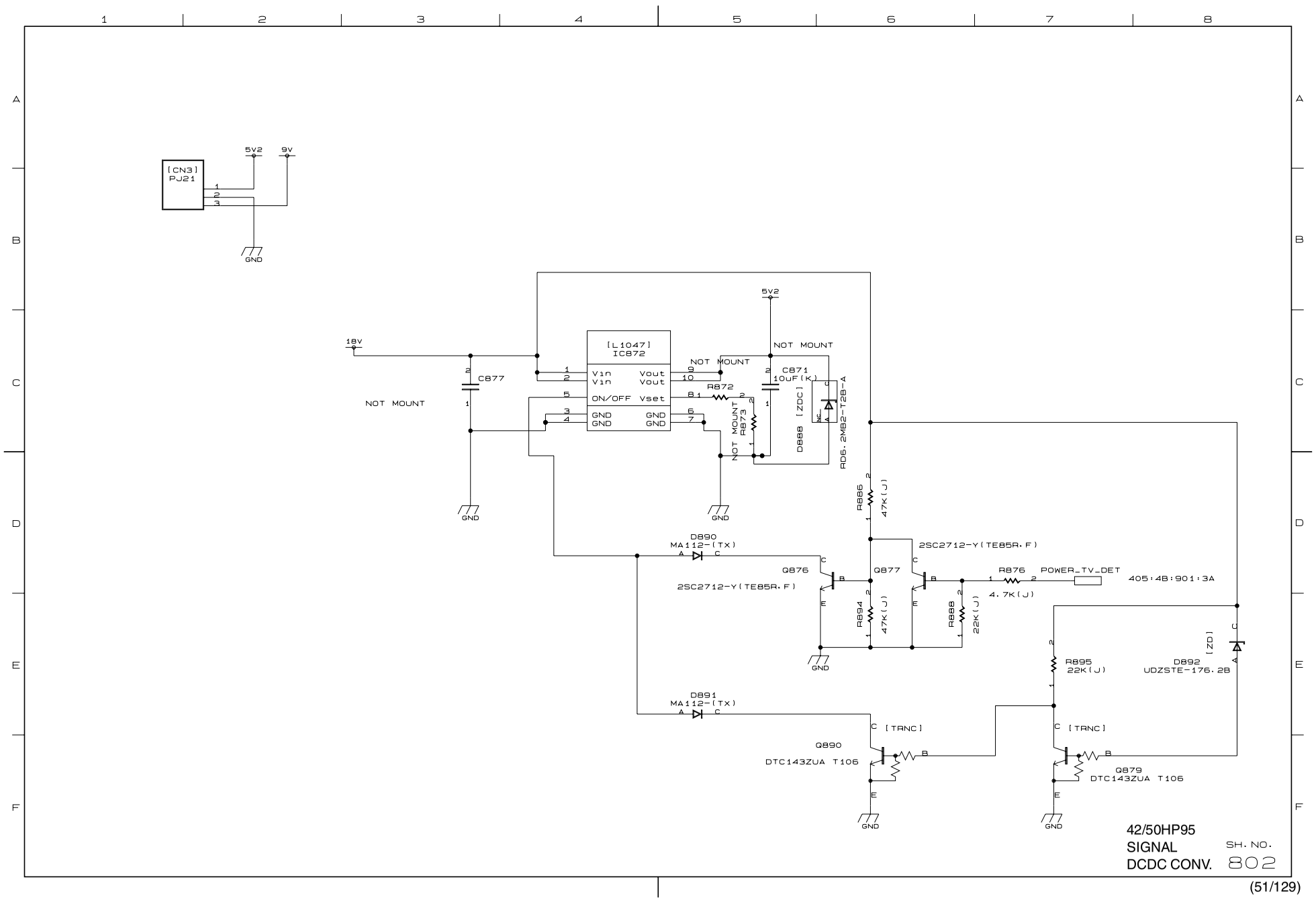
SH. NO.
702

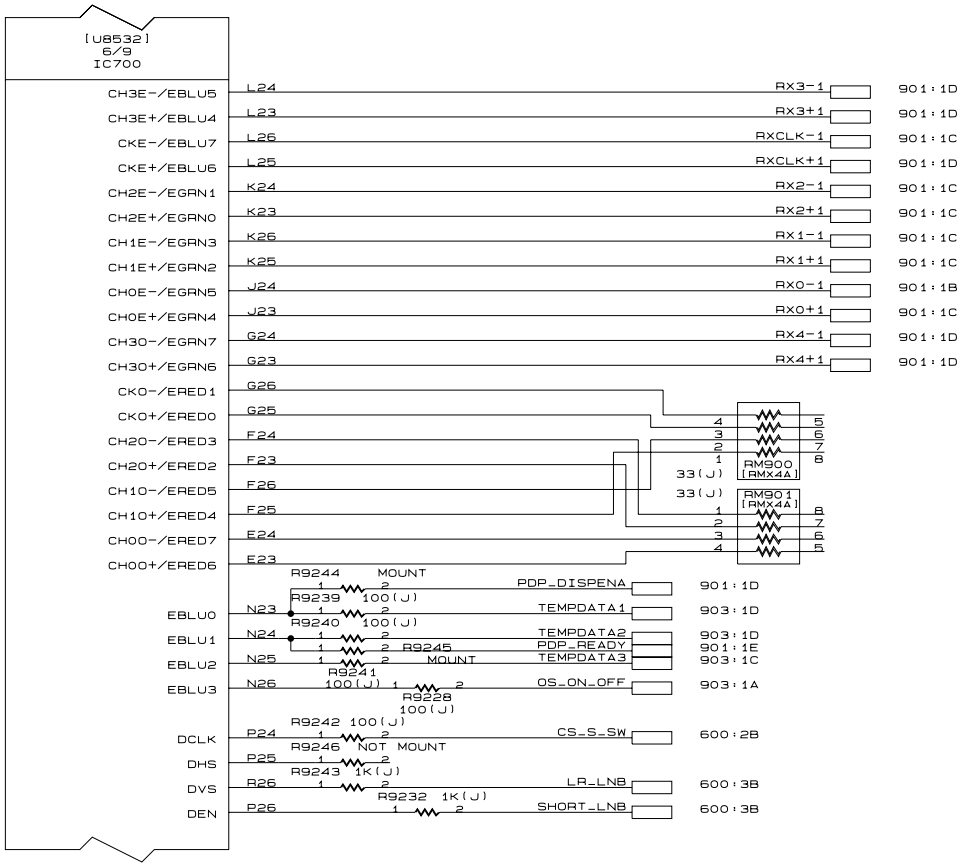

/FSCAS. /FSCS[0]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDQM[0-1]. FSDQS[0-1]
HY5DU281622ETP-5
[MDSD8M16]
IC701
/FSCAS. /FSCS[0]. /FSRAS. /FSWE. FS. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDATA[0-15]. FSDQM[2-3]. FSDQS[2-3]
FSDATA[16-31]
HY5DU281622ETP-5
[MDSD8M16]
IC702
FSADDR[0]
FSADDR[1]
FSADDR[2]
FSADDR[3]
FSADDR[4]
FSADDR[5]
FSADDR[6]
FSADDR[7]
FSADDR[8]
FSADDR[9]
FSADDR[10]
FSADDR[11]
FSADDR[12]
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
FSBKSEL[1]
FSBKSEL[0]
BS1
BS0
FSCLK-
FSCLK+
FSCKE
CLK
CKE
R732
220(J) NOT MOUNT
R733
220(J) NOT MOUNT
/FSCS[0]
/FSRAS
/FSCAS
/FSWE
CS
RAS
CAS
WE
FSDQM[0]
FSDQM[1]
FSDQS[0]
FSDQS[1]
R720 33(J)
R721 33(J)
R722 33(J)
R723 33(J)
LDM
UDM
LDQS
UDQS
NC
FSDQM[2]
FSDQM[3]
FSDQS[2]
FSDQS[3]
R724 33(J)
R725 33(J)
R726 33(J)
R727 33(J)
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
[RMX4A] RM711 33(J)
[RMX4A] RM712 33(J)
[RMX4A] RM713 33(J)
[RMX4A] RM714 33(J)
[RMX4A] RM715 33(J)
[RMX4A] RM716 33(J)
[RMX4A] RM717 33(J)
[RMX4A] RM718 33(J)
FSDATA[0]
FSDATA[1]
FSDATA[2]
FSDATA[3]
FSDATA[4]
FSDATA[5]
FSDATA[6]
FSDATA[7]
FSDATA[8]
FSDATA[9]
FSDATA[10]
FSDATA[11]
FSDATA[12]
FSDATA[13]
FSDATA[14]
FSDATA[15]
FSDATA[16]
FSDATA[17]
FSDATA[18]
FSDATA[19]
FSDATA[20]
FSDATA[21]
FSDATA[22]
FSDATA[23]
FSDATA[24]
FSDATA[25]
FSDATA[26]
FSDATA[27]
FSDATA[28]
FSDATA[29]
FSDATA[30]
FSDATA[31]
+2.5V_DDR
FSVREF
C774 100nF(K)
C775 100nF(K)
C776 100nF(K)
C777 100nF(K)
C778 100nF(K)
C779 100nF(K)
C780 100nF(K)
C781 100nF(K)
C782 100nF(K)
C783 100nF(K)
C784 100nF(K)
C785 100nF(K)
C786 100nF(K)
C787 100nF(K)
[VDDQ]
[VSSQ]
[VDD]
[VSS]
[VREF]
GND
42/50HP95
SIGNAL
DDR SDRAM
SH. NO.
703



42/50HP95
SIGNAL
DDR TERMINATION

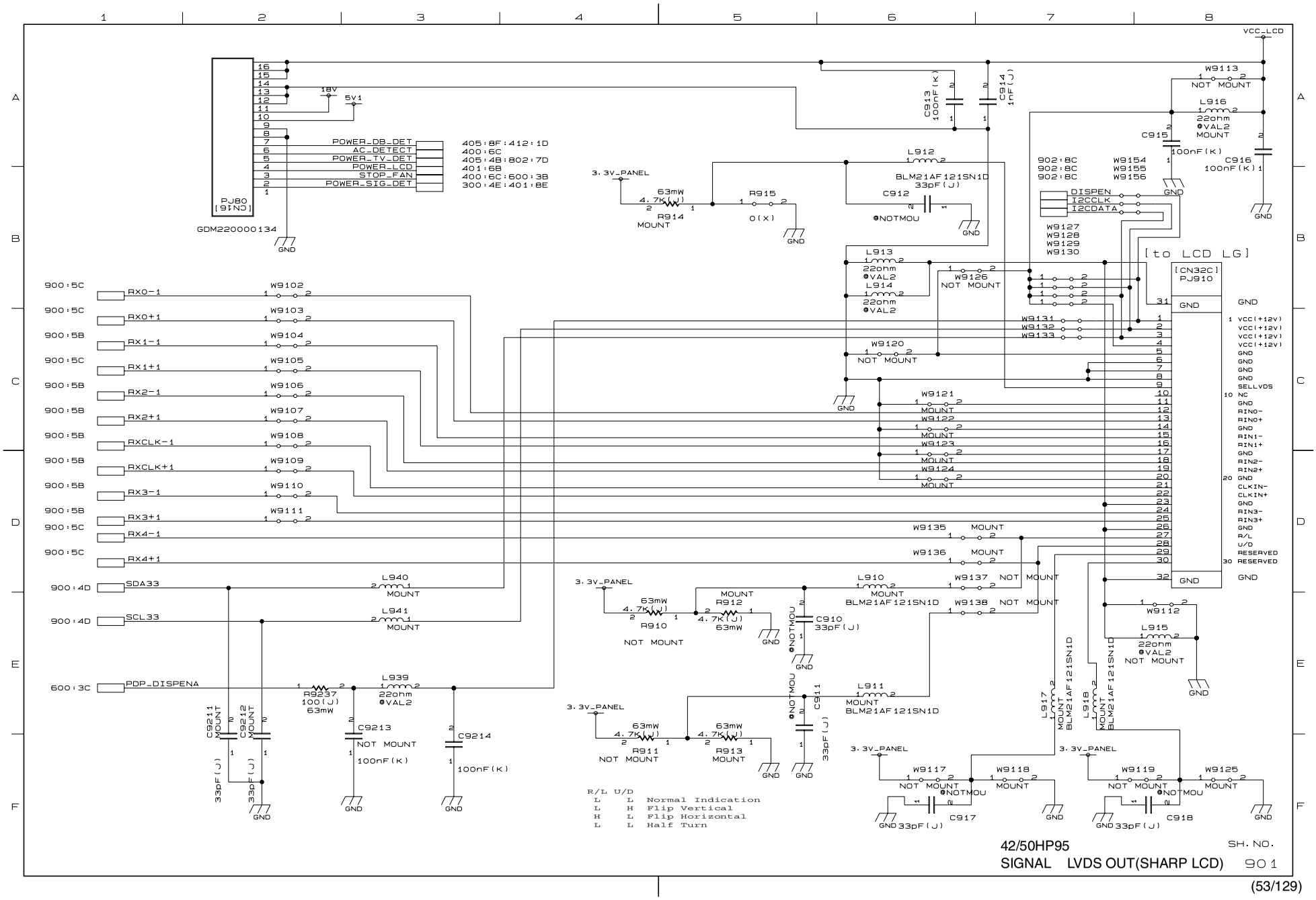
SH. NO.
704

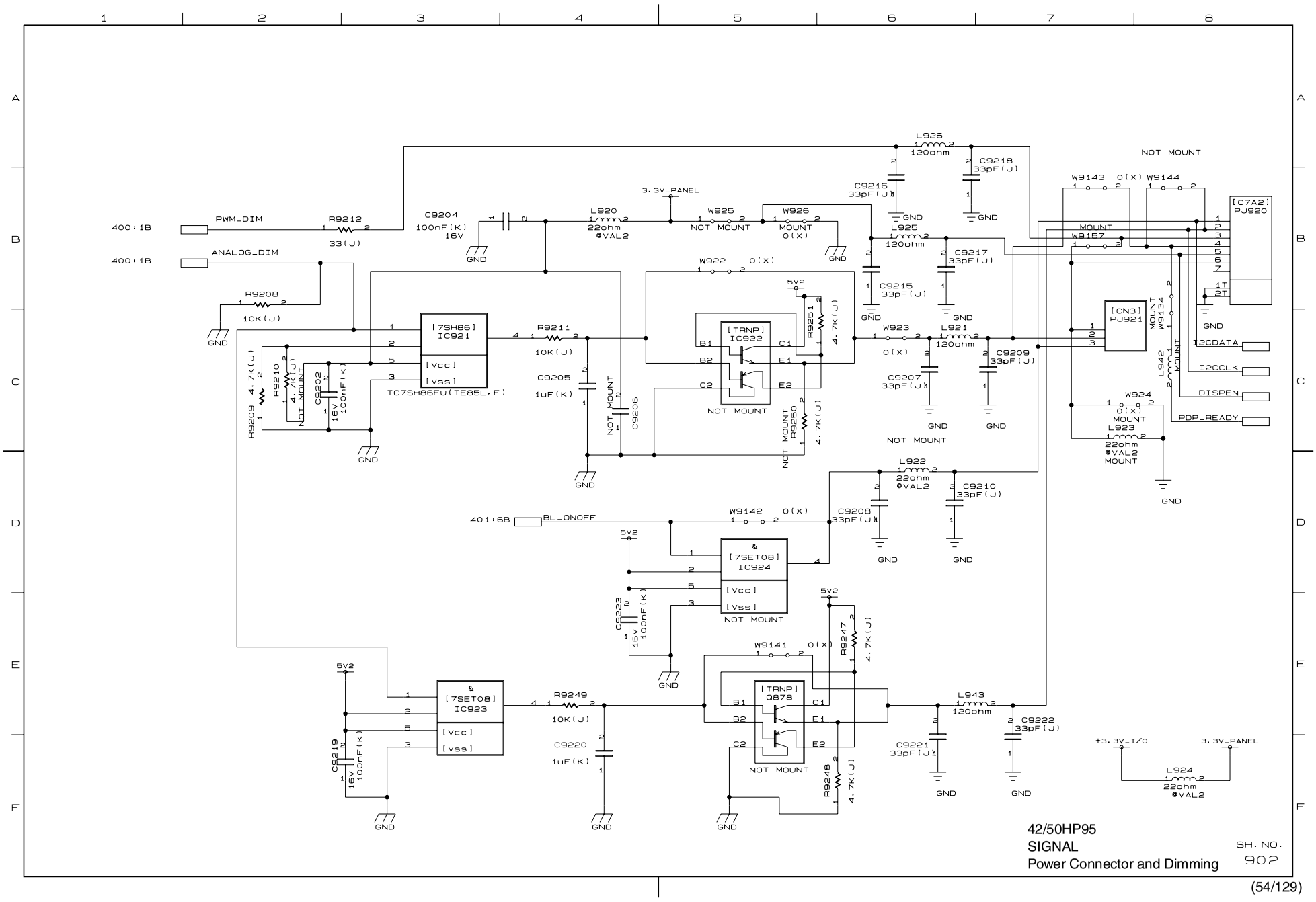

[CN3]
PJ21
5V2
9V
GND
18V
NOT MOUNT
C877
[L1047]
IC872
Vin
Vout
ON/OFF
Vset
GND
R872
R873
C871
10uF(K)
D888 [ZDC]
RD6.2MB2-T2B-A
R886
47K(J)
D890
MA112-(TX)
2SC2712-Y(TE85R.F)
Q876
Q877
R876
POWER_TV_DET
405:4B:901:3A
4.7K(J)
R894
47K(J)
R888
22K(J)
R895
22K(J)
D892
UDZSTE-176.2B
[ZD]
D891
MA112-(TX)
[TRNC]
Q890
DTC143ZUA T106
Q879
42/50HP95
SIGNAL
DCDC CONV.
SH. NO.
802



42/50HP95
SIGNAL
LVDS OUT

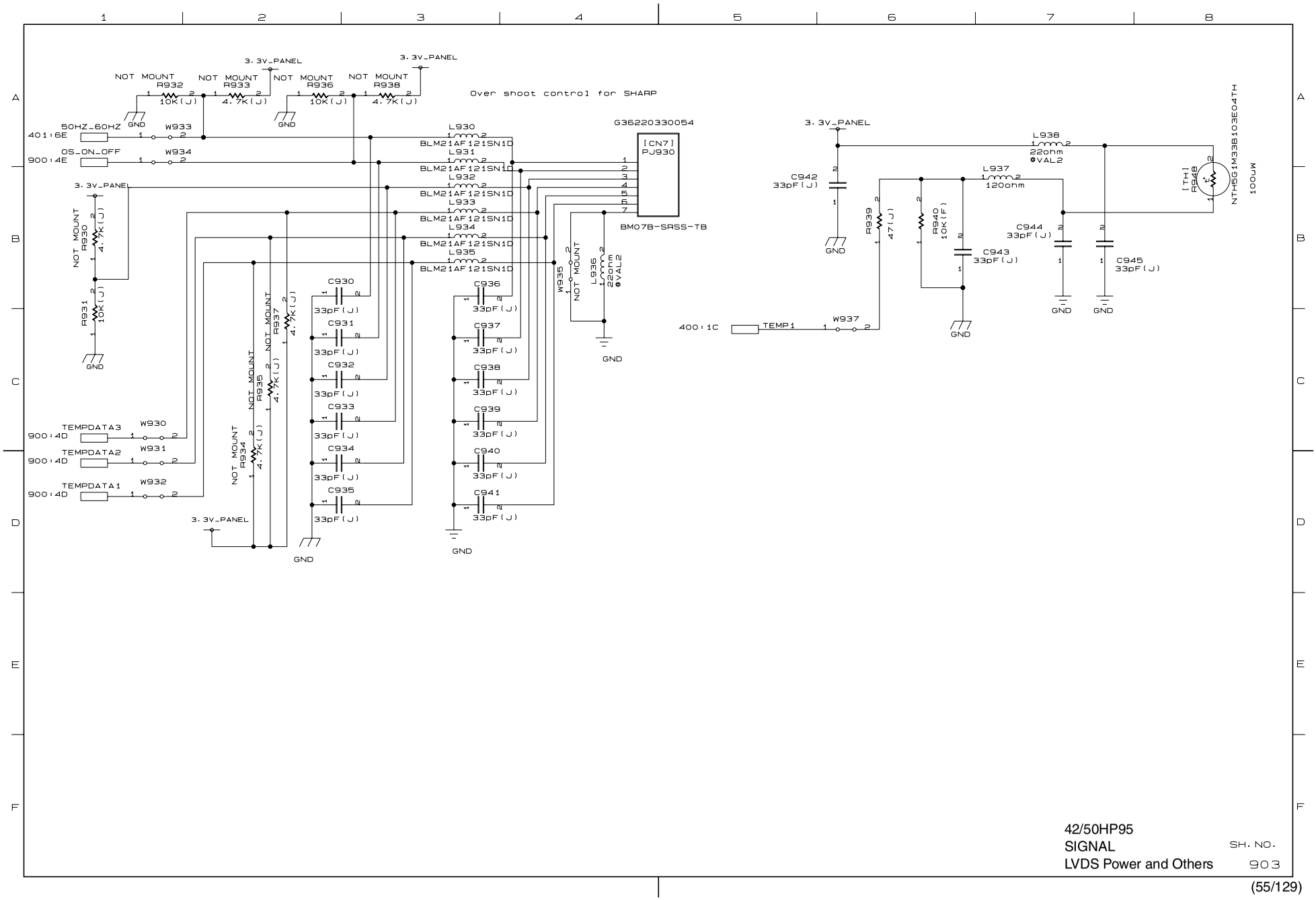
SH. NO.
900


VCC_LCD
PJ80 [CN16]
GDM220000134
18V
5V1
POWER_DB_DET
AC_DETECT
POWER_TV_DET
POWER_LCD
STOP_FAN
POWER_SIG_DET
405:8F:412:1D
400:6C
405:4B:802:7D
401:6B
400:6C:600:3B
300:4E:401:8E
GND
3.3V_PANEL
R914 MOUNT
R915 0(X)
L912 BLM21AF121SN1D 33pF(J)
C912 NOTMOU
C913 100nF(K)
C914 1nF(J)
W9113 NOT MOUNT
L916 220nm @VAL2 MOUNT
C915 100nF(K)
C916 100nF(K)
902:8C W9154
902:8C W9155
902:8C W9156
DISPEN
I2CCLK
I2CDATA
W9127
W9128
W9129
W9130
[to LCD LG]
[CN32C] PJ910
L913 220nm @VAL2
L914 220nm @VAL2
W9126 NOT MOUNT
W9120 NOT MOUNT
W9131
W9132
W9133
W9121 MOUNT
W9122 MOUNT
W9123 MOUNT
W9124 MOUNT
W9135 MOUNT
W9136 MOUNT
W9137 NOT MOUNT
W9138 NOT MOUNT
W9112
L915 220nm @VAL2 NOT MOUNT
L910 MOUNT BLM21AF121SN1D
L911 MOUNT BLM21AF121SN1D
L917 MOUNT BLM21AF121SN1D
L918 MOUNT BLM21AF121SN1D
R910 NOT MOUNT
R912 4.7K(J) 63mW
R911 NOT MOUNT
R913 MOUNT
C910 33pF(J)
C911 33pF(J)
W9117 NOT MOUNT
W9118 MOUNT
W9119 NOT MOUNT
W9125 MOUNT
C917 33pF(J)
C918 33pF(J)
900:5C RX0-1
900:5C RX0+1
900:5B RX1-1
900:5C RX1+1
900:5B RX2-1
900:5B RX2+1
900:5B RXCLK-1
900:5B RXCLK+1
900:5B RX3-1
900:5B RX3+1
900:5C RX4-1
900:5C RX4+1
900:4D SDA33
900:4D SCL33
600:3C PDP_DISPENA
L940 MOUNT
L941 MOUNT
L939 220nm @VAL2
R9237 100(J) 63mW
C9211 MOUNT 33pF(J)
C9212 MOUNT 33pF(J)
C9213 NOT MOUNT 100nF(K)
C9214 100nF(K)
R/L U/D
L L Normal Indication
L H Flip Vertical
H L Flip Horizontal
L L Half Turn
42/50HP95
SIGNAL LVDS OUT(SHARP LCD)
SH. NO.
901



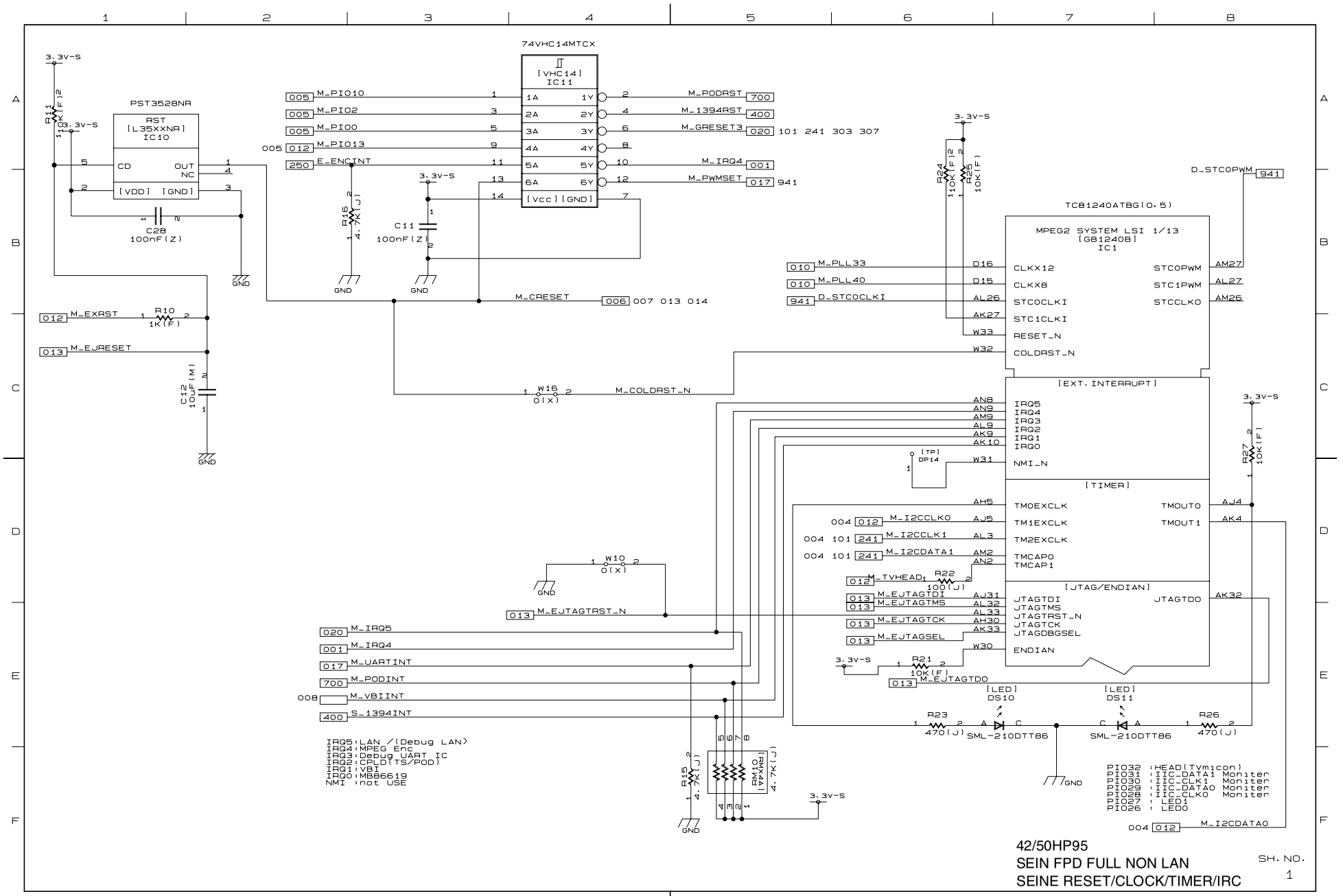
42/50HP95
SIGNAL
Power Connector and Dimming

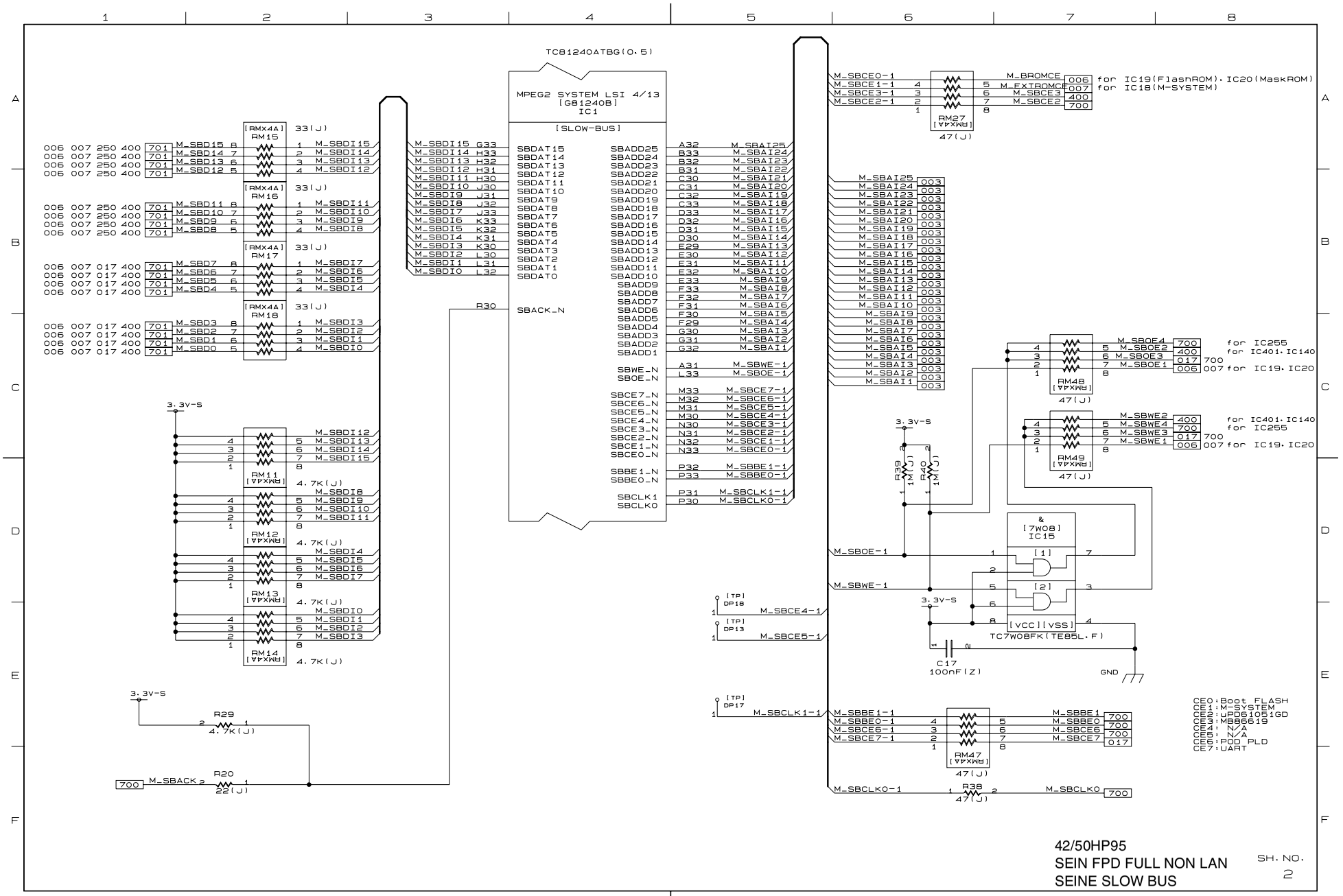
SH. NO.
902



42/50HP95
SIGNAL
LVDS Power and Others

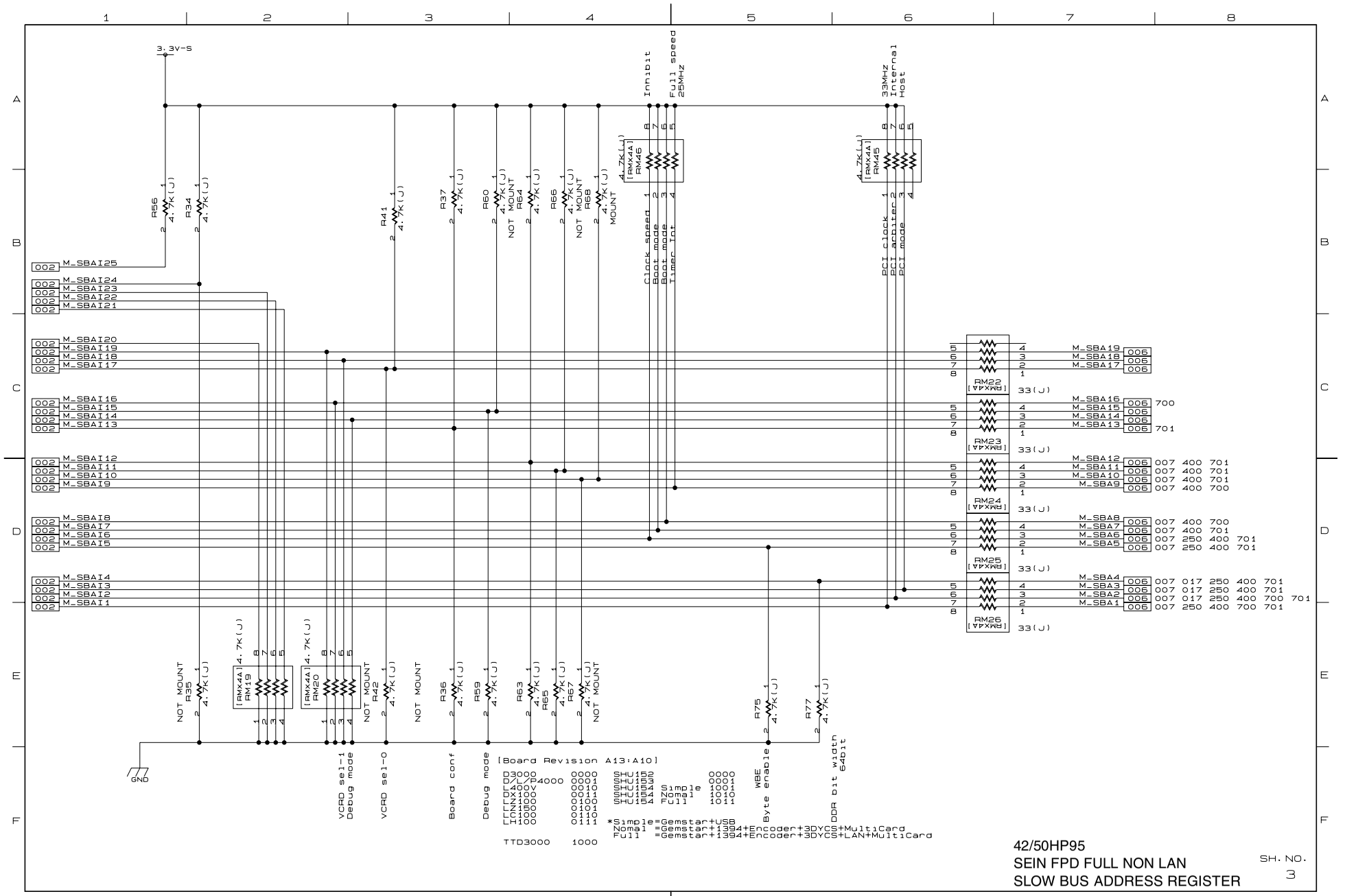
SH. NO. 903


74VHC14MTCX
[VHC14]
IC11
PST3528NR
RST
[L35XXNR]
IC10
3.3V-S
GND
M_PIO10
M_PIO02
M_PIO00
M_PIO13
E_ENCINT
M_PODRST
M_1394RST
M_GRESET3
M_IRQ4
M_PWMSET
M_CRESET
M_EXRST
M_EJRESET
M_COLDRST_N
TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 1/13
[G81240B]
IC1
M_PLL33
M_PLL40
D_STC0CLKI
D_STC0PWM
CLKX12
CLKX8
STC0CLKI
STC1CLKI
RESET_N
COLDRST_N
STC0PWM
STC1PWM
STCCLKO
[EXT. INTERRUPT]
IRQ5
IRQ4
IRQ3
IRQ2
IRQ1
IRQ0
NMI_N
[TIMER]
TM0EXCLK
TM1EXCLK
TM2EXCLK
TMCAP0
TMCAP1
TMOUT0
TMOUT1
M_I2CCLK0
M_I2CCLK1
M_I2CDATA1
M_I2CDATA0
M_TVHEAD
[JTAG/ENDIAN]
JTAGTDI
JTAGTMS
JTAGTRST_N
JTAGTCK
JTAGDBGSEL
ENDIAN
JTAGTDO
M_EJTAGTDI
M_EJTAGTMS
M_EJTAGTCK
M_EJTAGSEL
M_EJTAGTDO
M_EJTAGTRST_N
[LED]
DS10
DS11
SML-210DTT86
M_IRQ5
M_IRQ4
M_UARTINT
M_PODINT
M_VBIINT
S_1394INT
IRQ5:LAN /(Debug LAN)
IRQ4:MPEG Enc
IRQ3:Debug UART IC
IRQ2:CPLD(TS/POD)
IRQ1:VBI
IRQ0:MB86619
NMI :not USE
PIO32 :HEAD(TVmicon)
PIO31 :IIC_DATA1 Monitor
PIO30 :IIC_CLK1 Monitor
PIO29 :IIC_DATA0 Monitor
PIO28 :IIC_CLK0 Monitor
PIO27 : LED1
PIO26 : LED0
42/50HP95
SEIN FPD FULL NON LAN
SEINE RESET/CLOCK/TIMER/IRC
SH. NO.
1



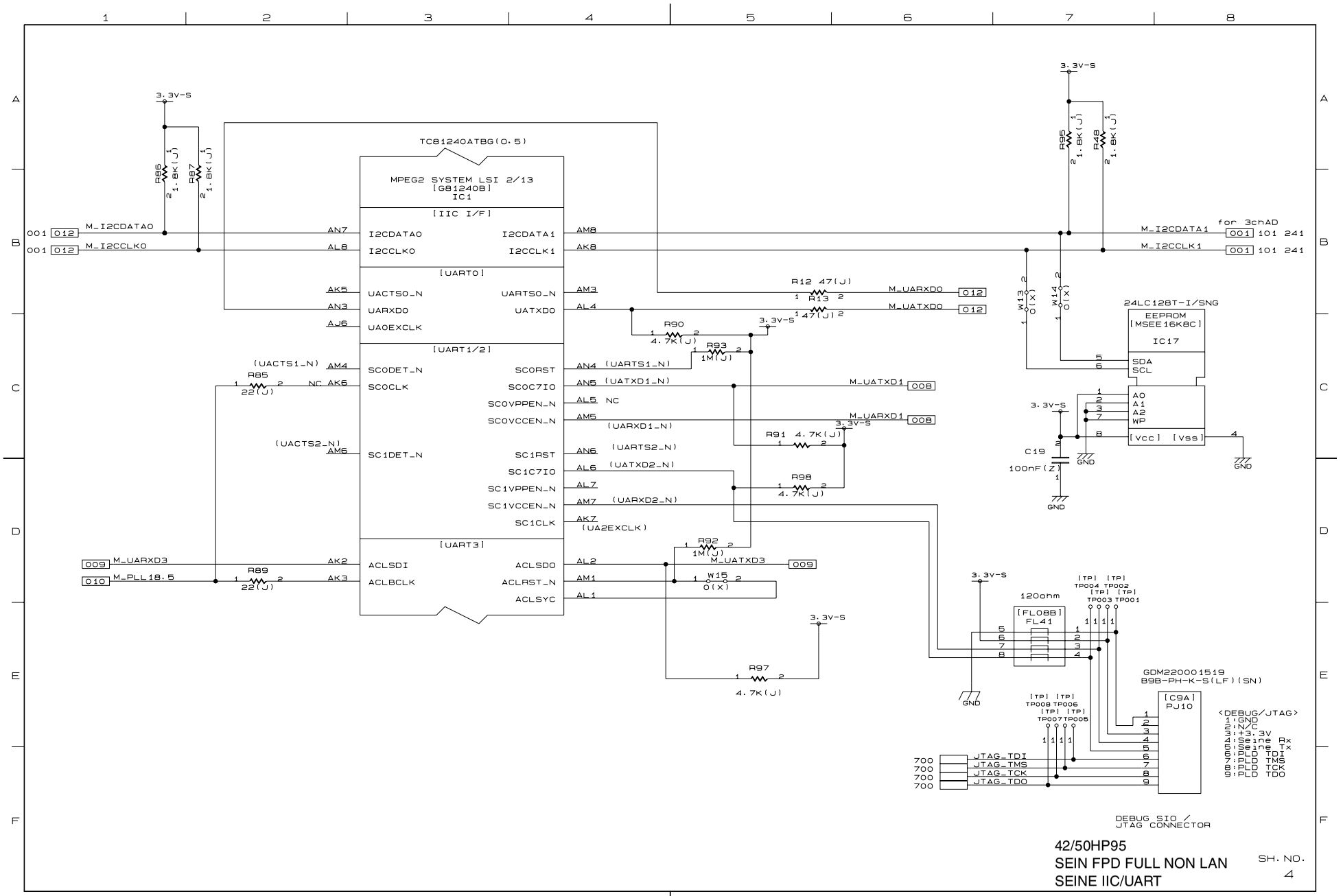
42/50HP95
SEIN FPD FULL NON LAN
SEINE SLOW BUS

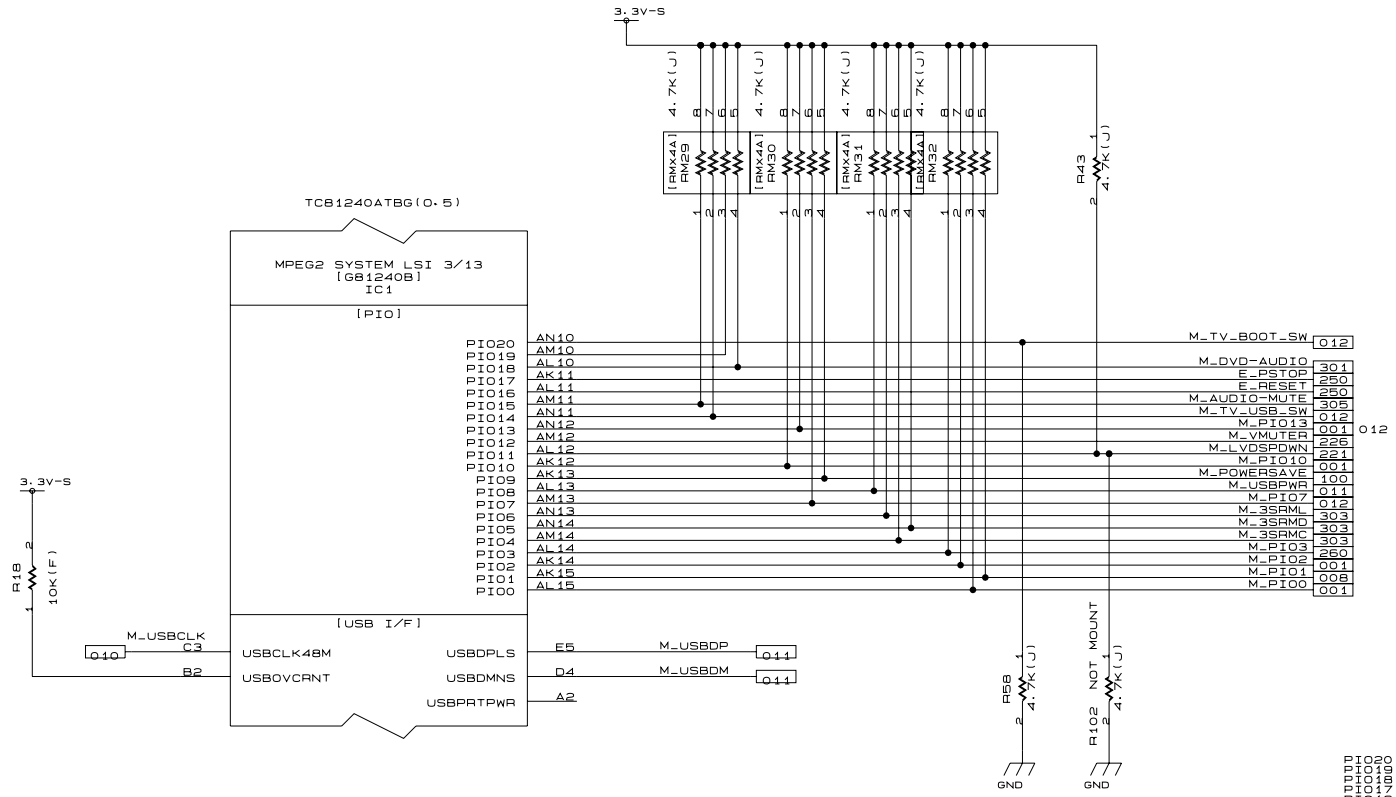
SH. NO. 2



42/50HP95
SEIN FPD FULL NON LAN
SLOW BUS ADDRESS REGISTER

SH. NO. 3

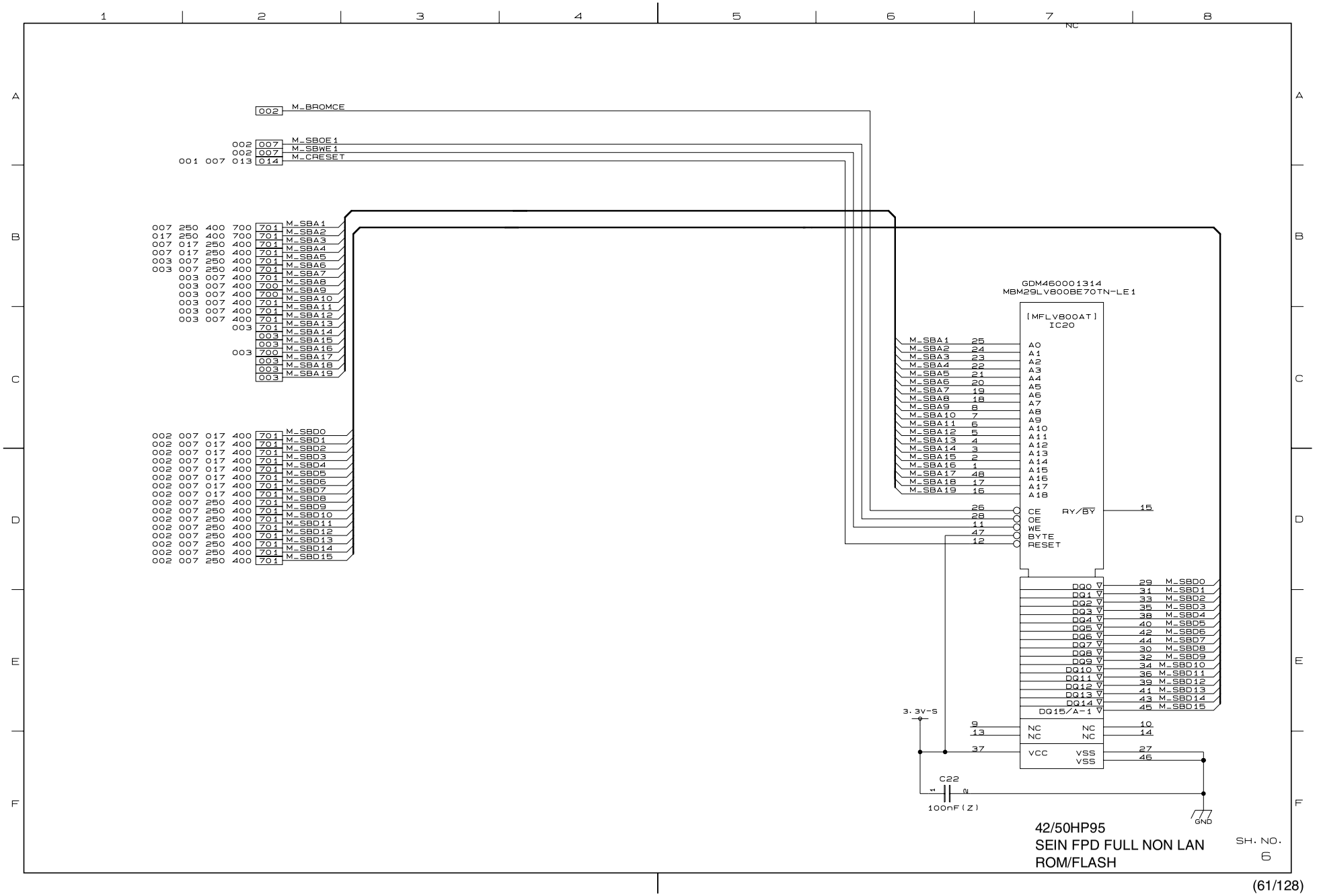

TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 2/13
[G81240B]
IC1
[IIC I/F]
[UART0]
[UART1/2]
[UART3]
M_I2CDATA0
M_I2CCLK0
M_I2CDATA1
M_I2CCLK1
for 3chAD
M_UARXD0
M_UATXD0
24LC128T-I/SNG
EEPROM
[MSEE16K8C]
IC17
SDA
SCL
AO
A1
A2
WP
[Vcc]
[Vss]
M_UATXD1
M_UARXD1
M_UARXD3
M_PLL18.5
M_UATXD3
(UACTS1_N)
(UACTS2_N)
(UARTS1_N)
(UARTS2_N)
(UATXD1_N)
(UATXD2_N)
(UARXD1_N)
(UARXD2_N)
(UA2EXCLK)
120ohm
[FL08B]
FL41
GDM2200001519
B9B-PH-K-S(LF)(SN)
[C9A]
PJ10
<DEBUG/JTAG>
1:GND
2:N/C
3:+3.3V
4:Seine Rx
5:Seine Tx
6:PLD TDI
7:PLD TMS
8:PLD TCK
9:PLD TDO
JTAG_TDI
JTAG_TMS
JTAG_TCK
JTAG_TDO
DEBUG SIO /
JTAG CONNECTOR
42/50HP95
SEIN FPD FULL NON LAN
SEINE IIC/UART
SH. NO.
4

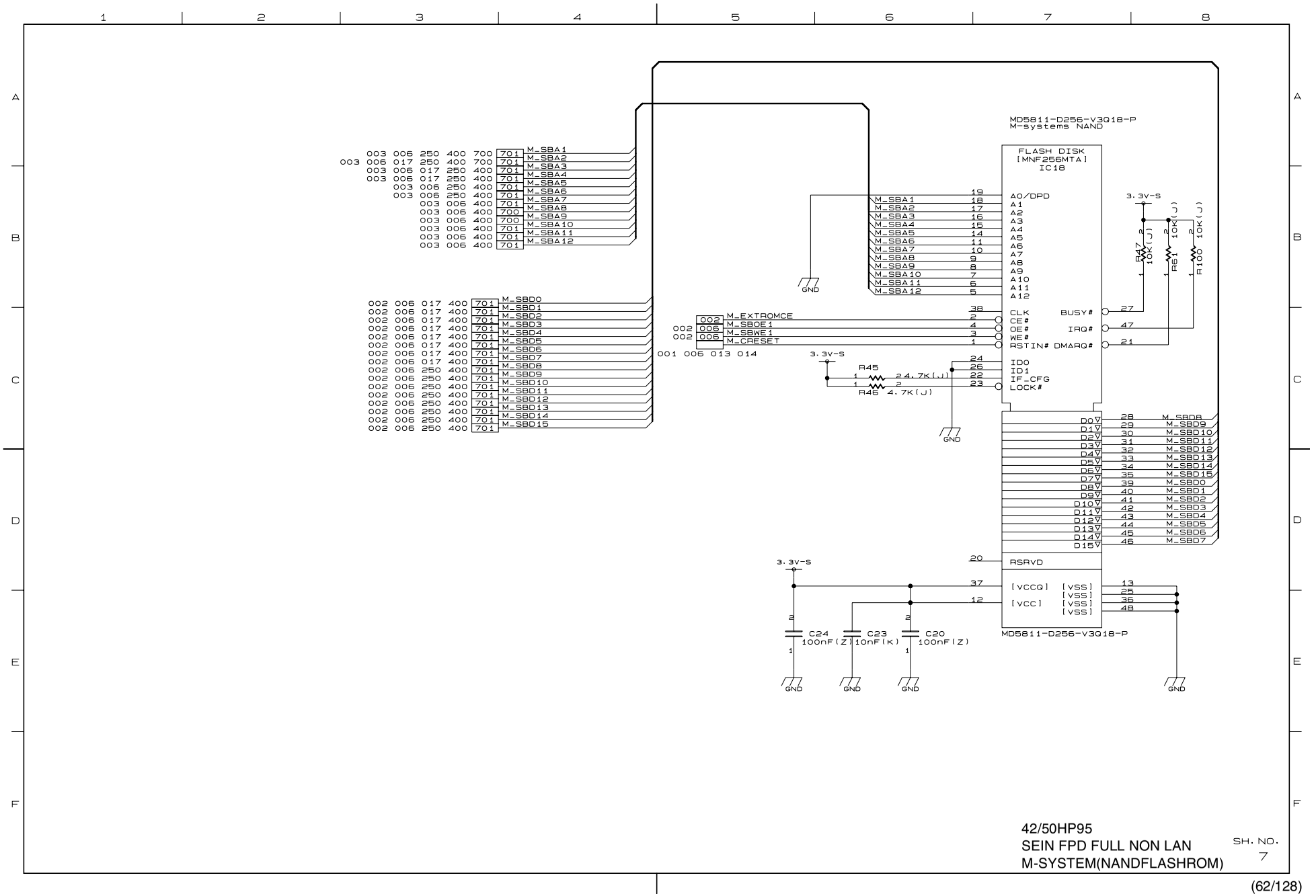


PIO20:TV BOOT SW
PIO19: N.C.
PIO18:DVD AUDIO
PIO17:Encoder STOP
PIO16:Encoder RESET
PIO15:Audio Mute
PIO14:TV USB SW
PIO13:Pod Standy UARTO SW
PIO12:Video Mute for RecOUT
PIO11:LVDS **POWER DOWN**
PIO10:PLD RESET
PIO9 :POWER SAVE
PIO8 :USB Power
PIO7 :Pod Standy IICO SW
PIO6 :Serial bus latch(D/A)
PIO5 :Serial bus data(D/A)
PIO4 :Serial bus clock(D/A)
PIO3 :Gemster IA Reset
PIO2 :1394LSI Reset
PIO1 :Gemster IA Reset
PIO0 :3.3V Grobal Reset

42/50HP95
SEIN FPD FULL NON LAN
SEINE PIO

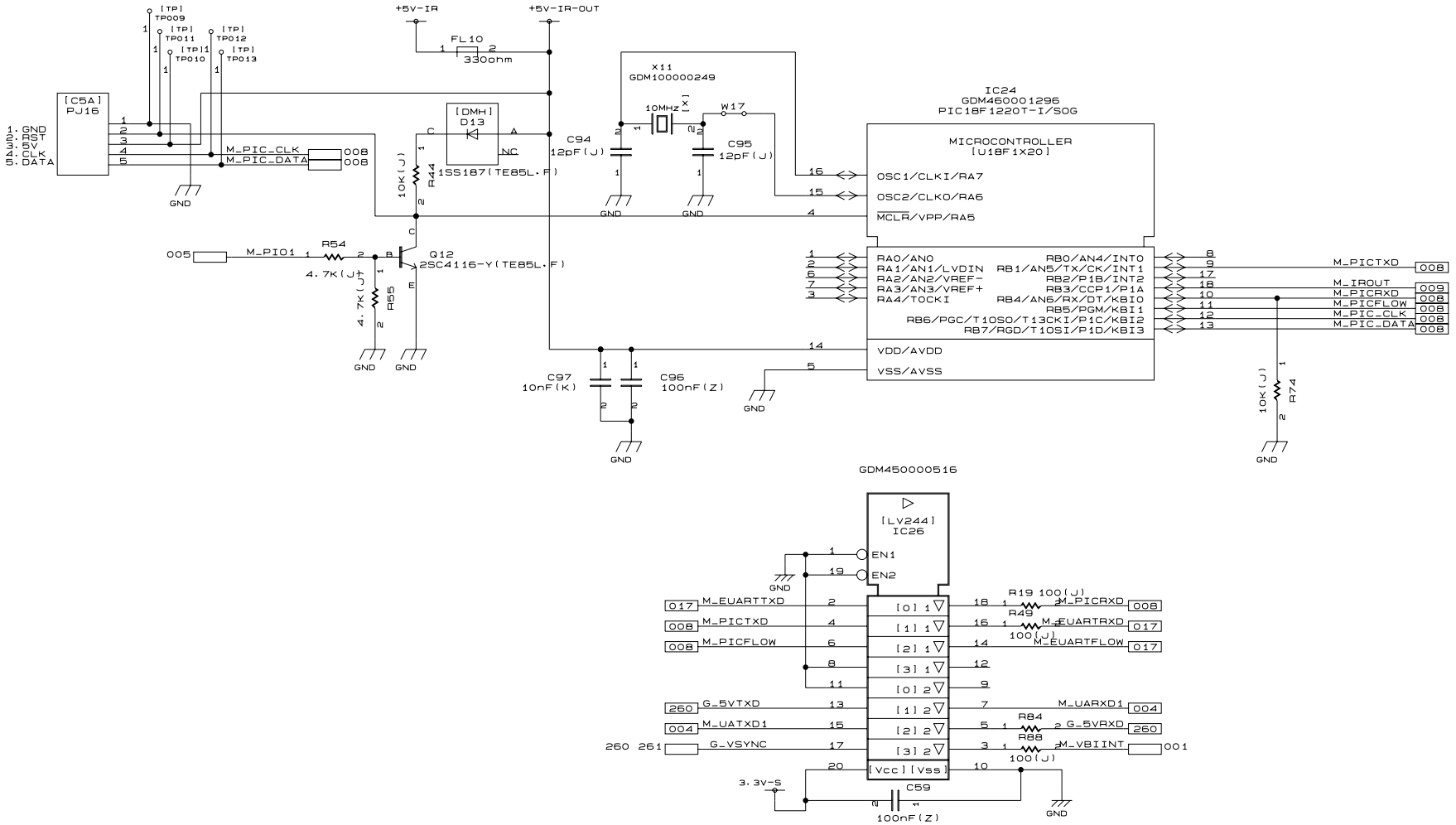
SH. NO.
5


M_BROMCE
M_SBOE1
M_SBWE1
M_CRESET
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
M_SBA16
M_SBA17
M_SBA18
M_SBA19
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_SBD8
M_SBD9
M_SBD10
M_SBD11
M_SBD12
M_SBD13
M_SBD14
M_SBD15
GDM4600O1314
MBM29LV800BE70TN-LE1
[MFLV800AT]
IC20
CE
OE
WE
BYTE
RESET
RY/BY
3.3V-S
C22
100nF(Z)
GND
NC
VCC
VSS
42/50HP95
SEIN FPD FULL NON LAN
ROM/FLASH
SH. NO.
6



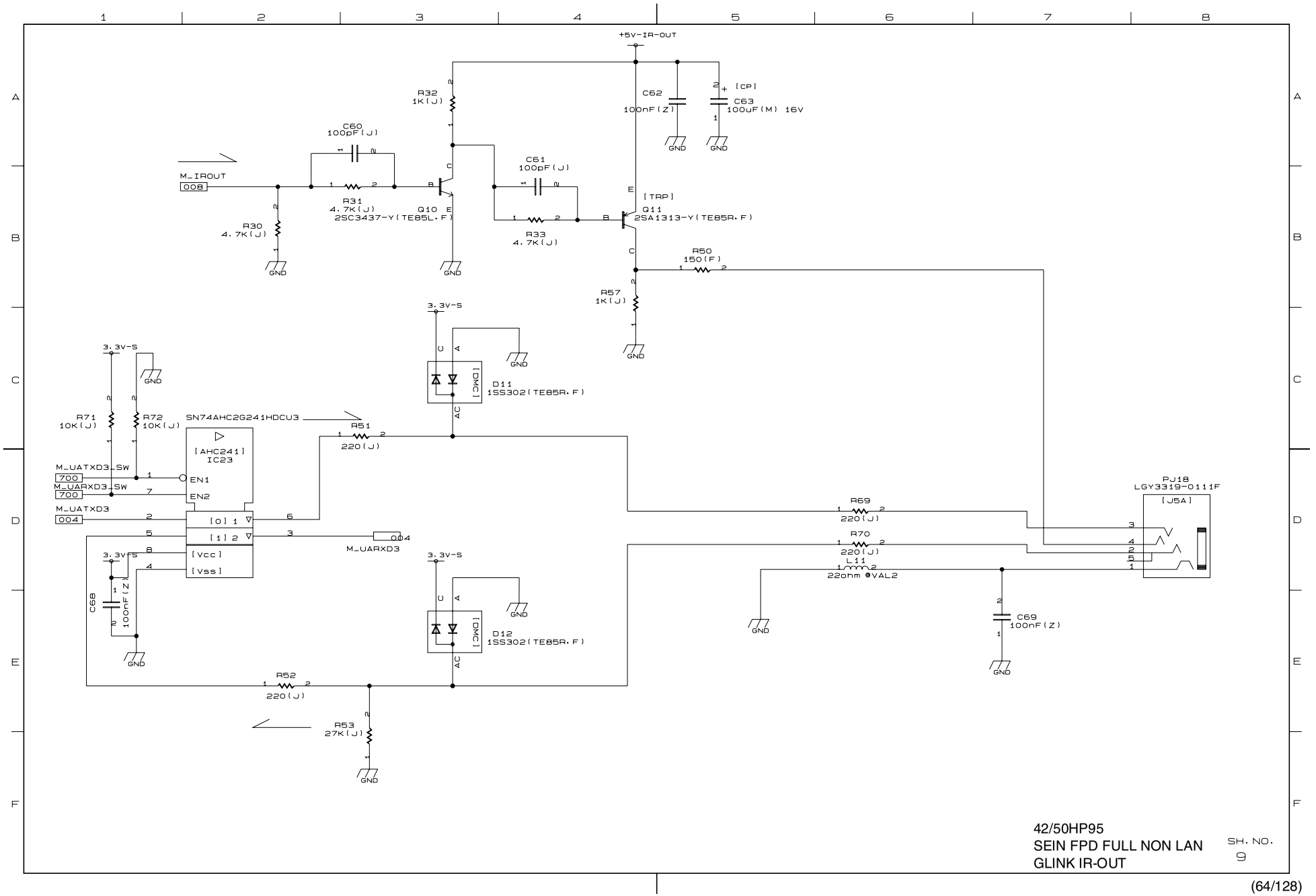
42/50HP95
SEIN FPD FULL NON LAN
M-SYSTEM(NANDFLASHROM)

SH. NO.
7



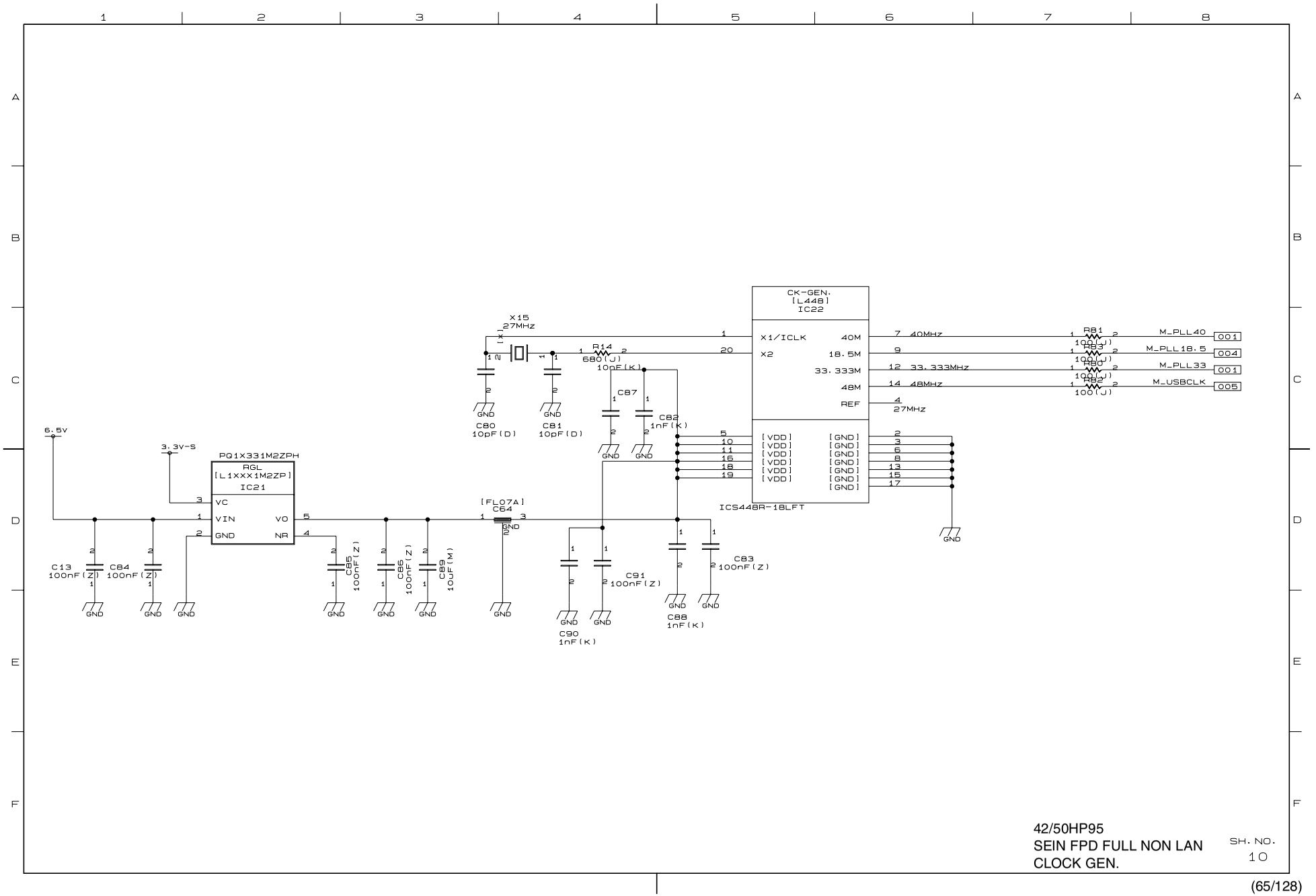
42/50HP95
SEIN FPD FULL NON LAN
IR

SH. NO.
8



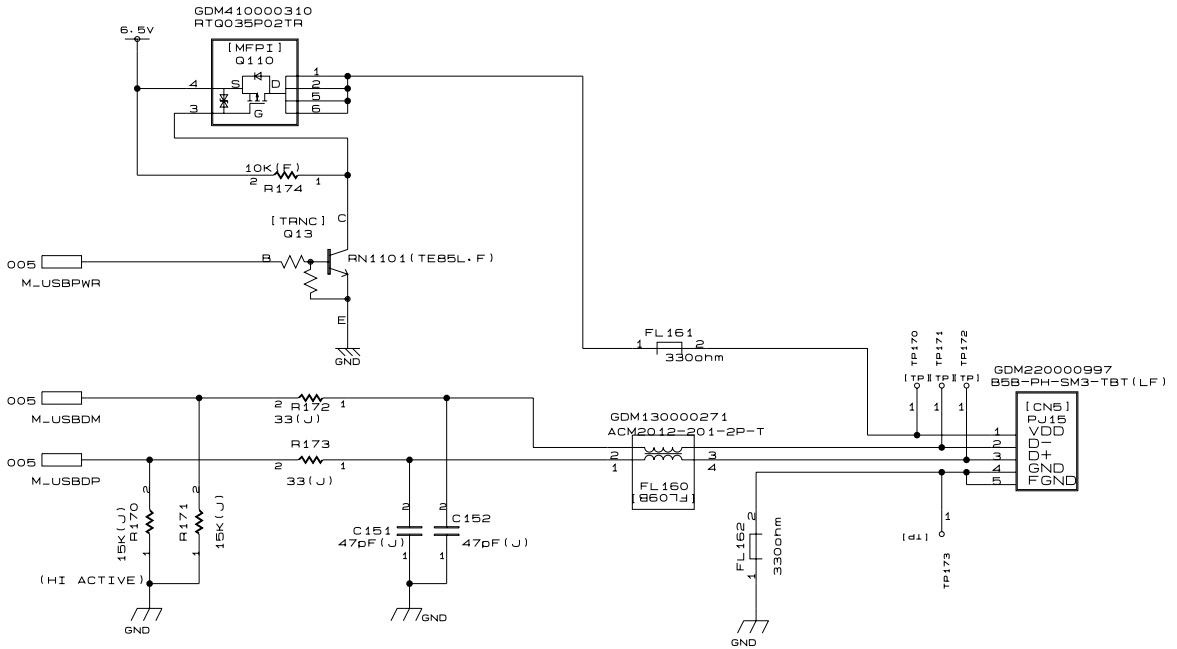
42/50HP95
SEIN FPD FULL NON LAN
GLINK IR-OUT

SH. NO.
9



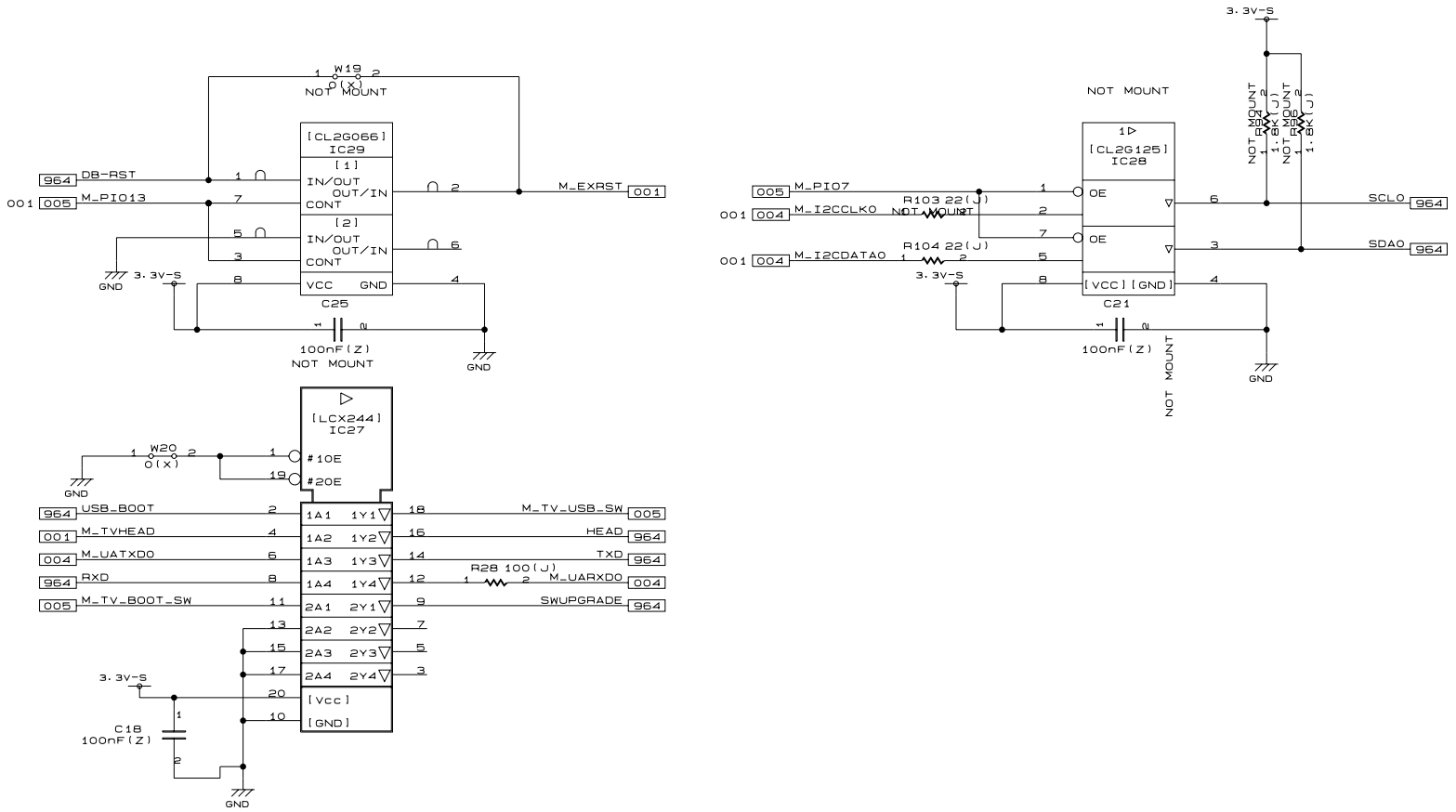
42/50HP95
SEIN FPD FULL NON LAN
CLOCK GEN.

SH. NO.
10



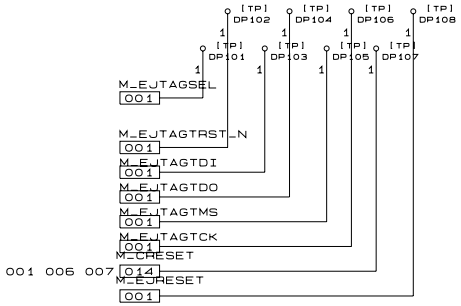
42/50HP95
SEIN FPD FULL NON LAN
USB I/F

SH. NO.
11



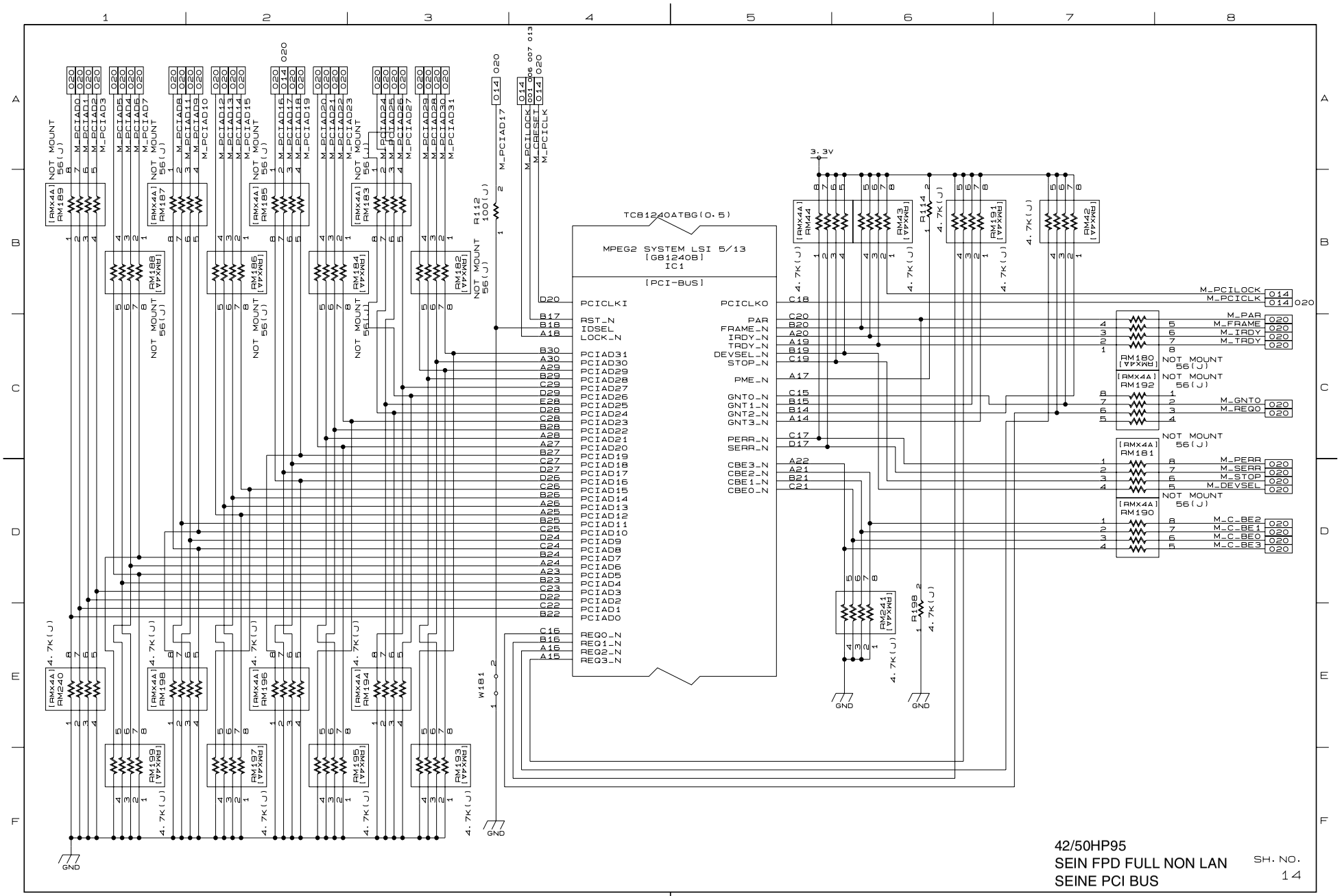
42/50HP95
SEIN FPD FULL NON LAN
UART0 INTERFACE

SH. NO.
12



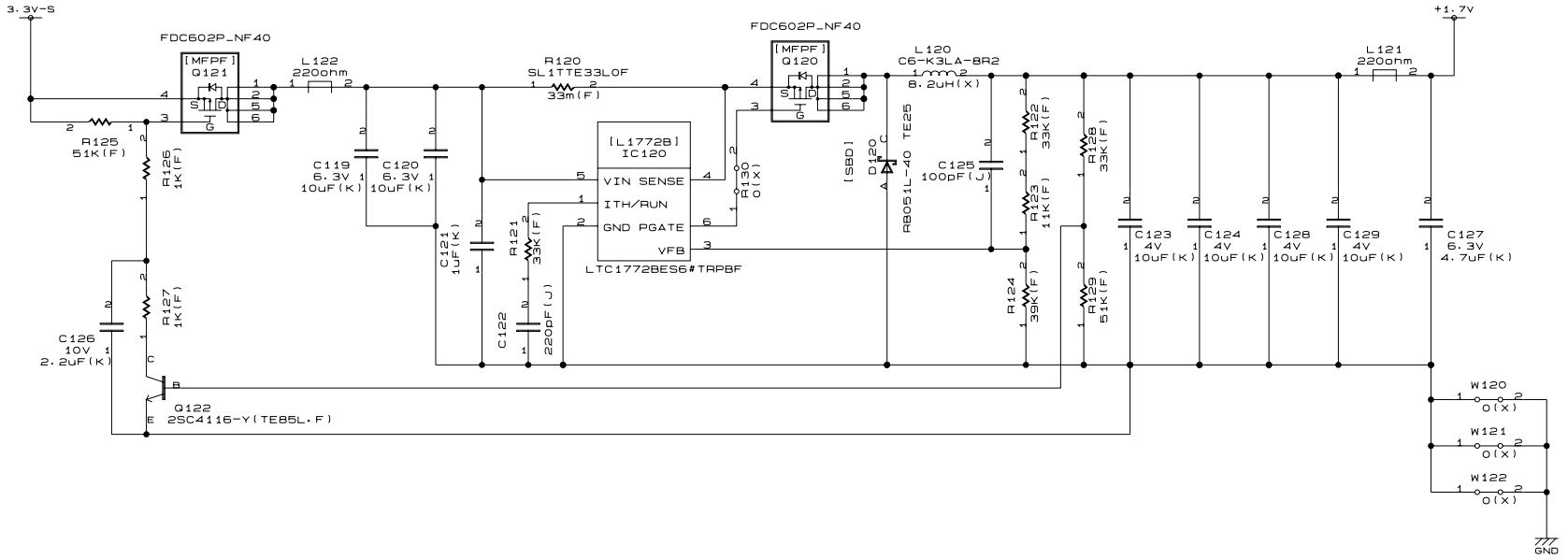
42/50HP95
SEIN FPD FULL NON LAN
EJTAG CONNECTOR

SH. NO.
13



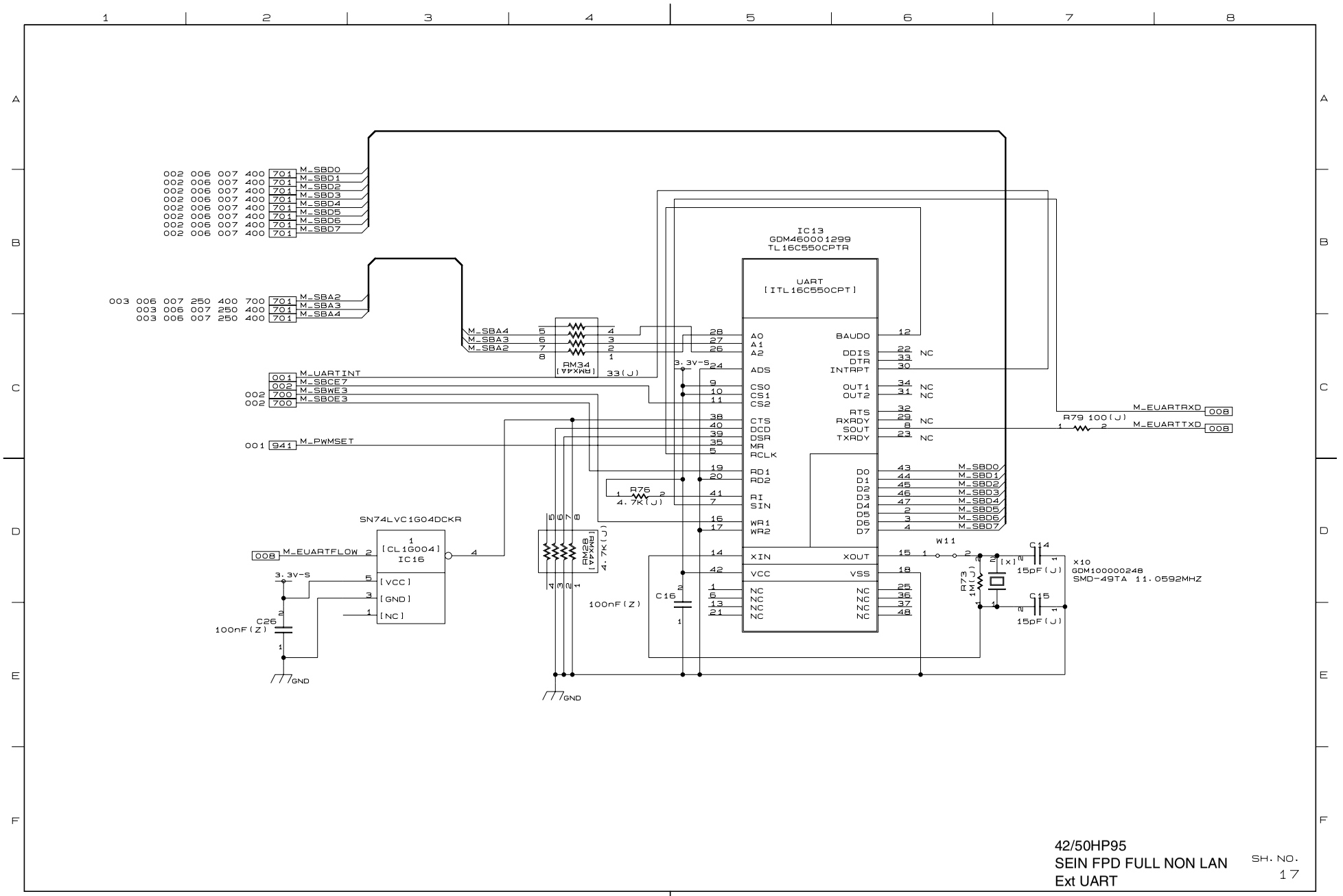
42/50HP95
SEIN FPD FULL NON LAN
SEINE PCI BUS

SH. NO.
14



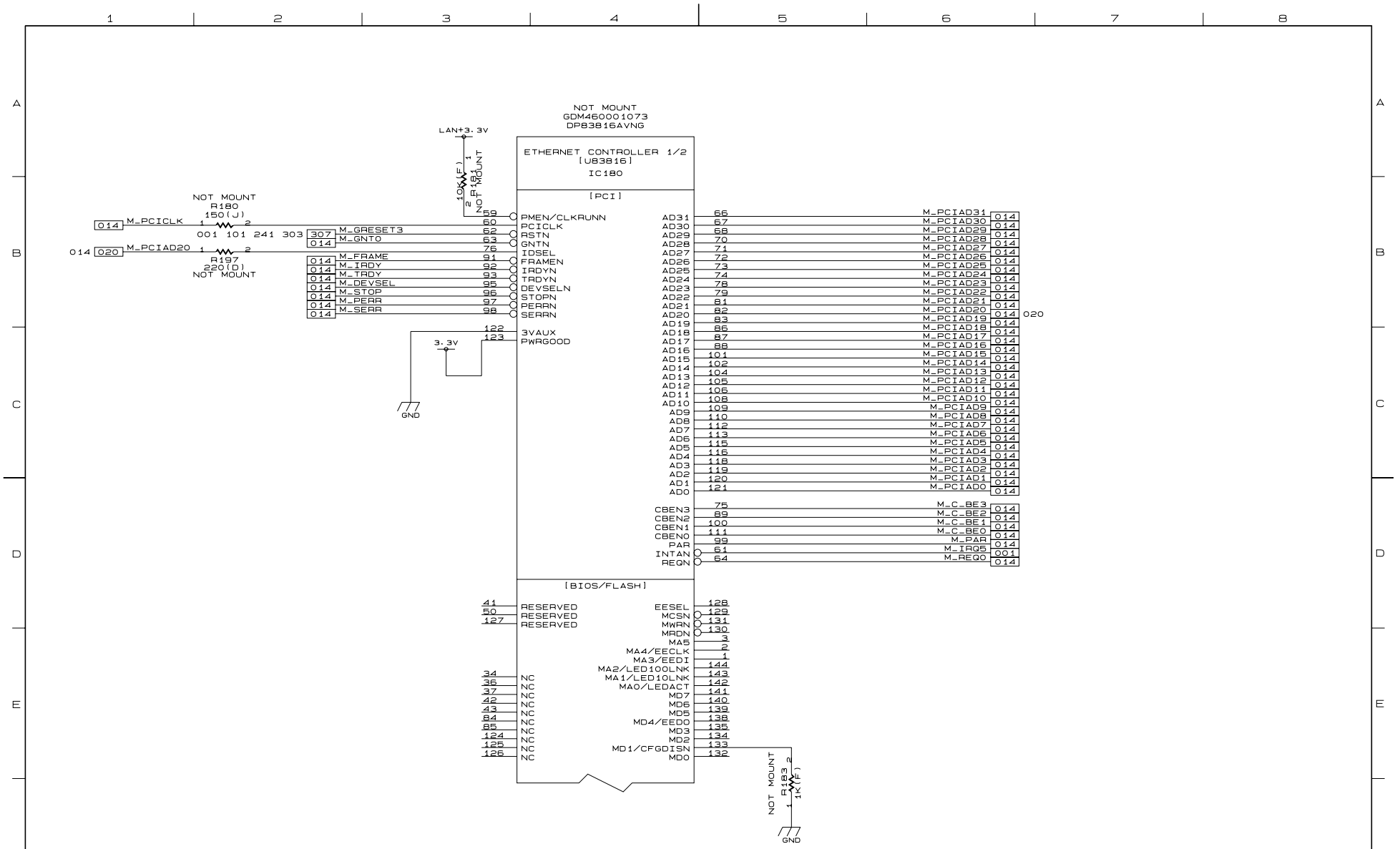
42/50HP95
SEIN FPD FULL NON LAN
MPU POWER

SH. NO.
016



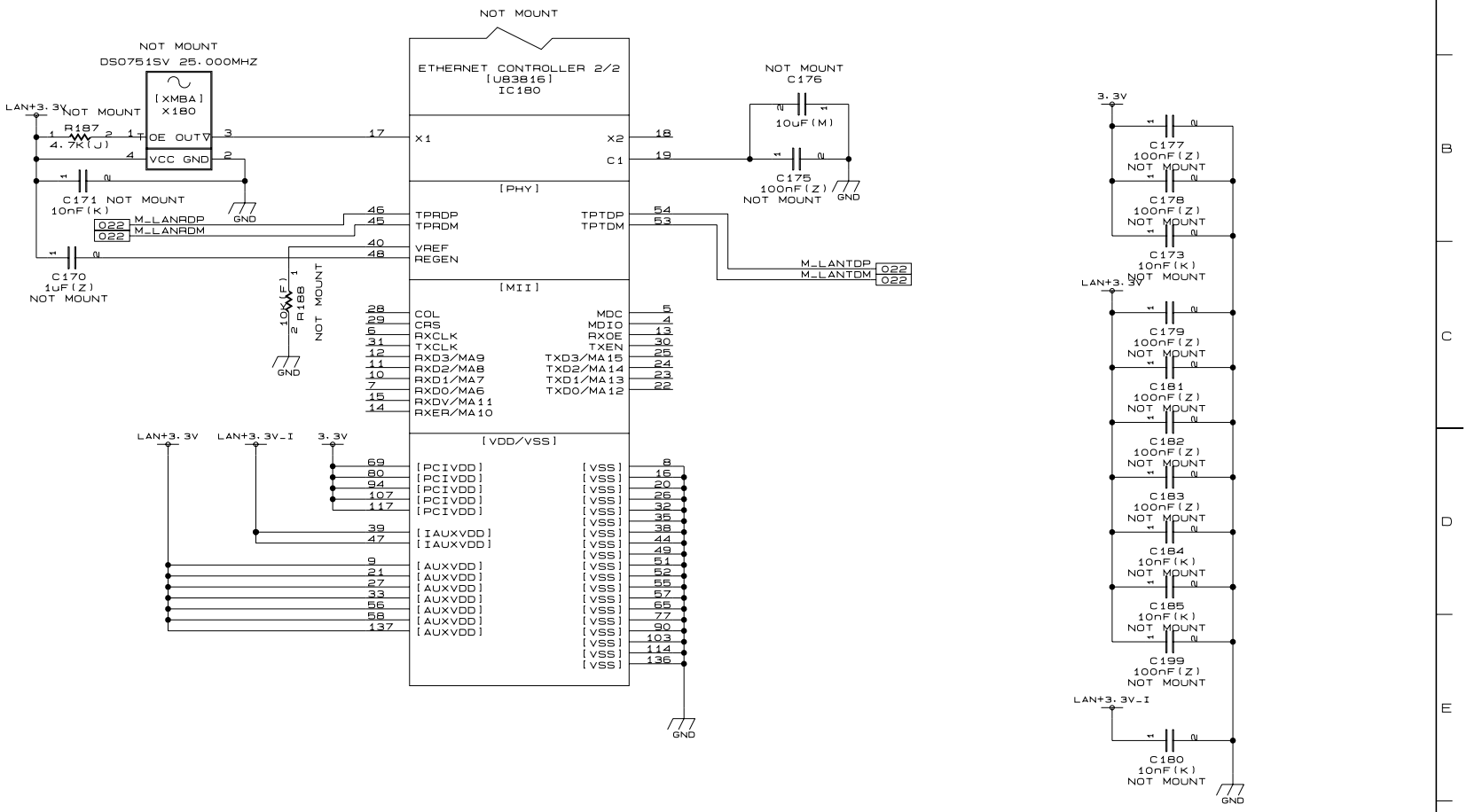
42/50HP95
SEIN FPD FULL NON LAN
Ext UART

SH. NO.
17



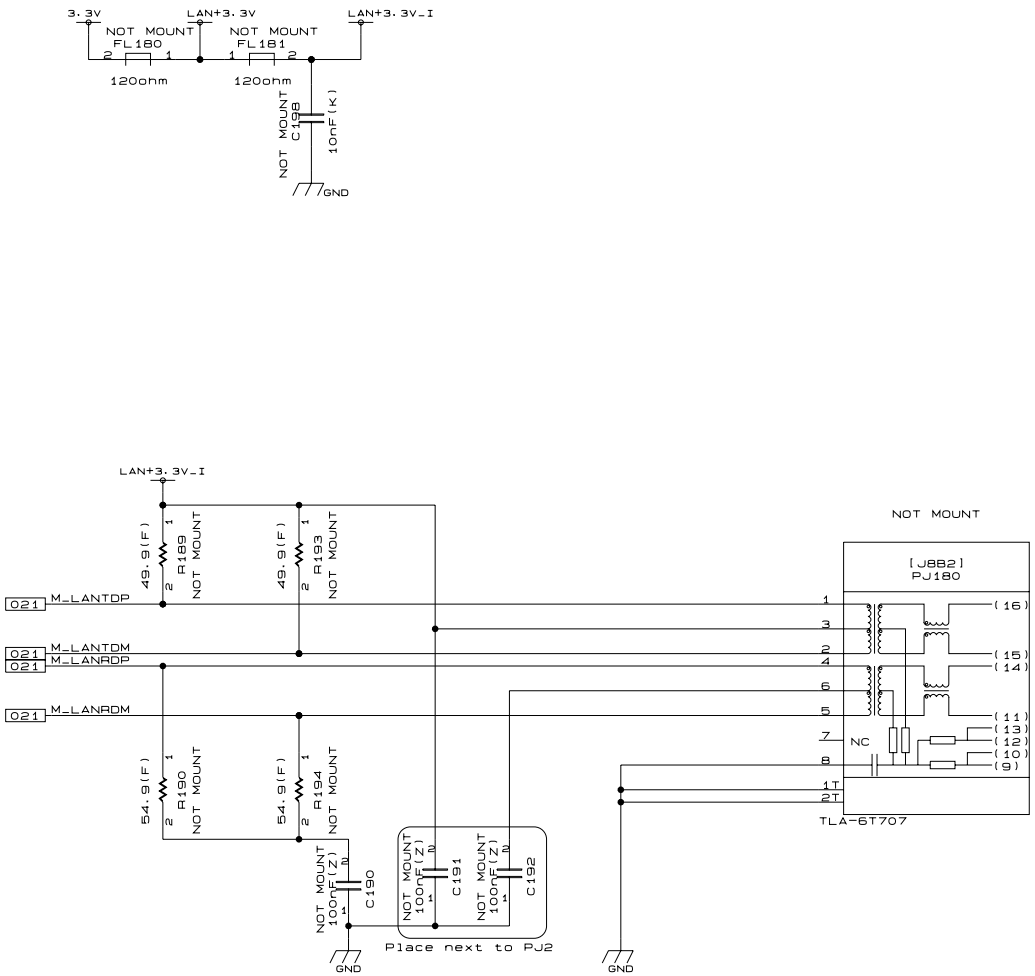
42/50HP95
SEIN FPD FULL NON LAN
MACPHYTER 1 (1/2)

SH. NO. 20



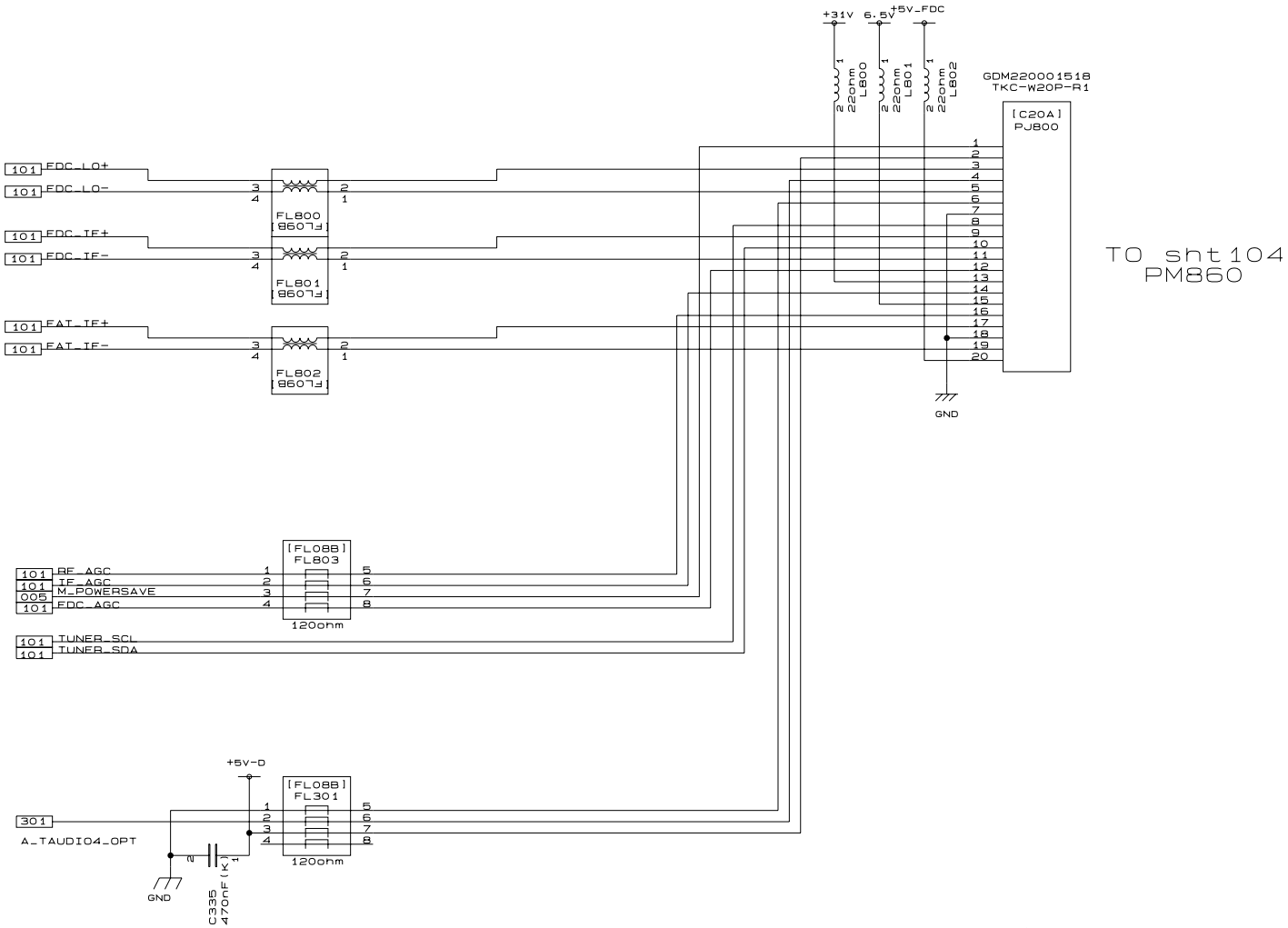
42/50HP95
SEIN FPD FULL NON LAN
MACPHYTER 1 (2/2)

SH. NO. 21



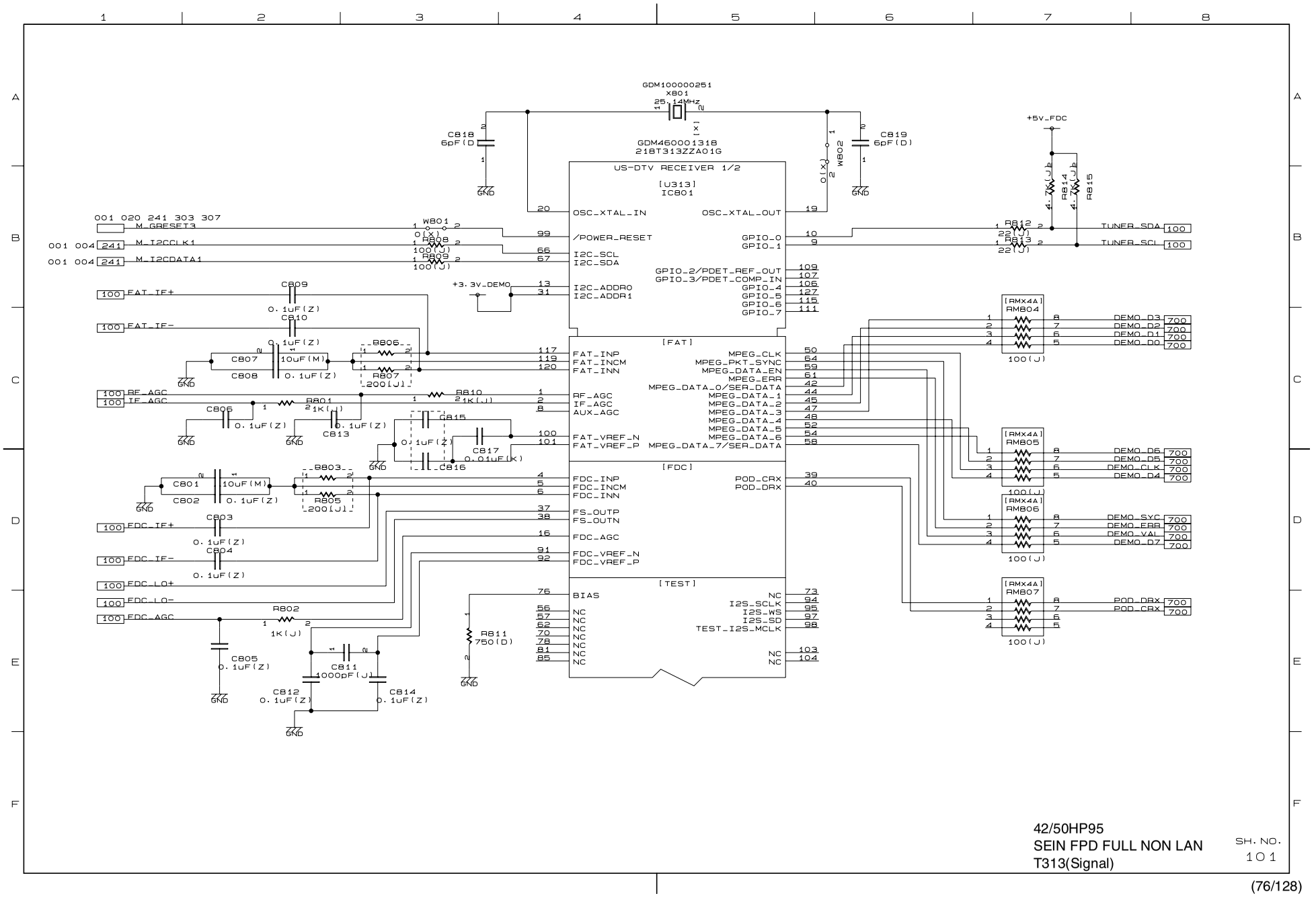
42/50HP95
SEIN FPD FULL NON LAN
RJ45

SH. NO.
22



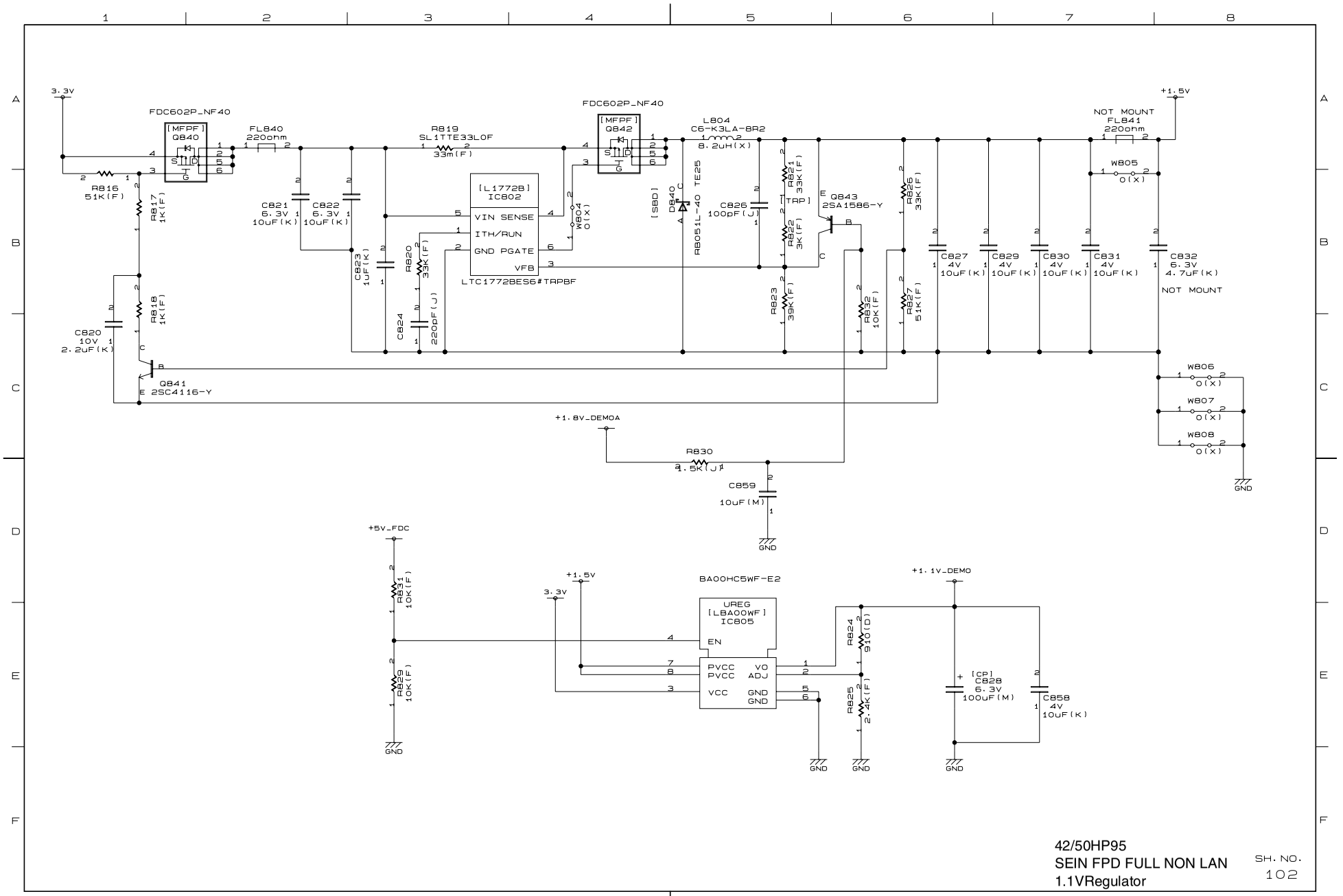
42/50HP95
SEIN FPD FULL NON LAN
TUENR CONNECTOR

SH. NO.
100



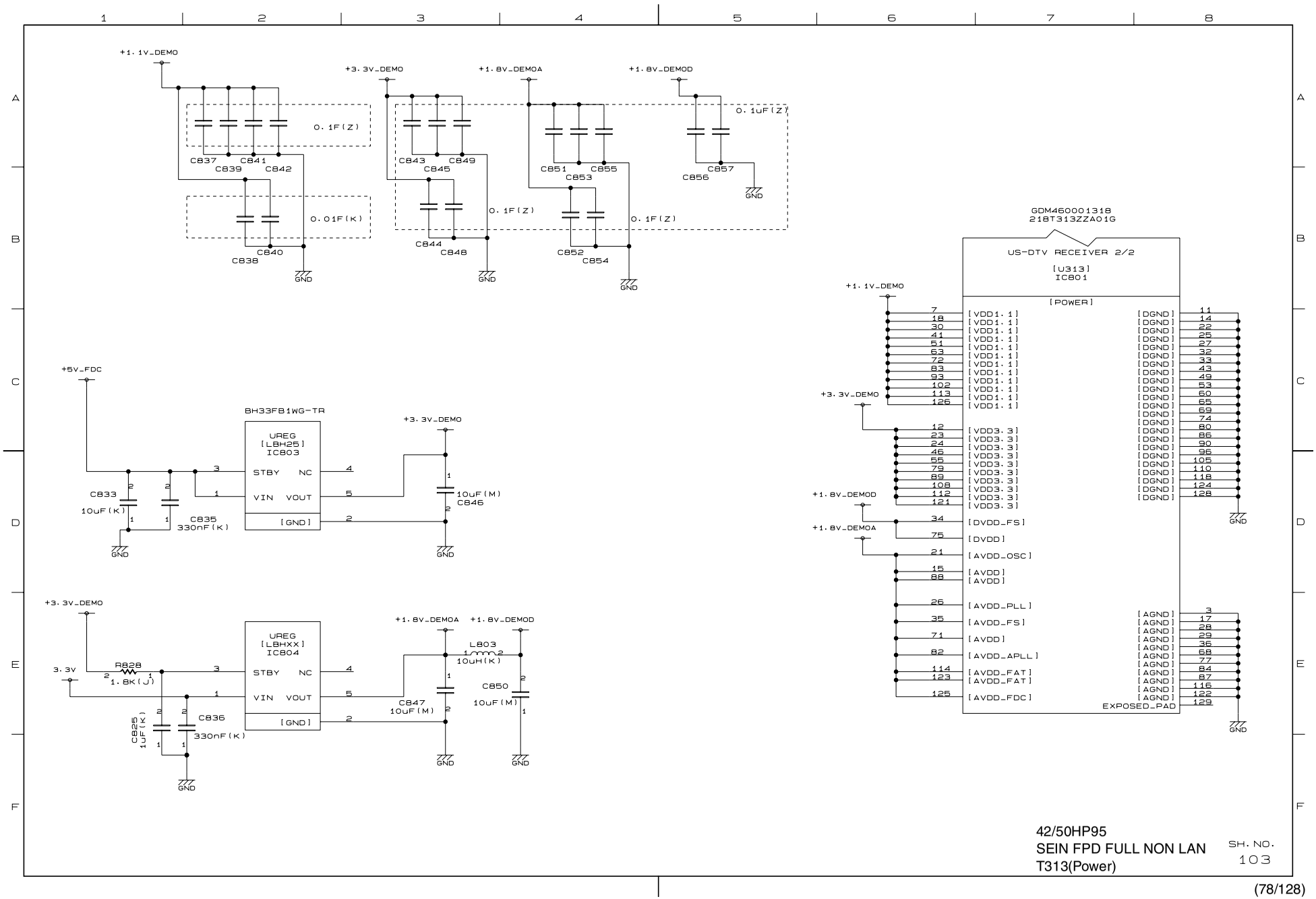
42/50HP95
SEIN FPD FULL NON LAN
T313(Signal)

SH. NO.
101



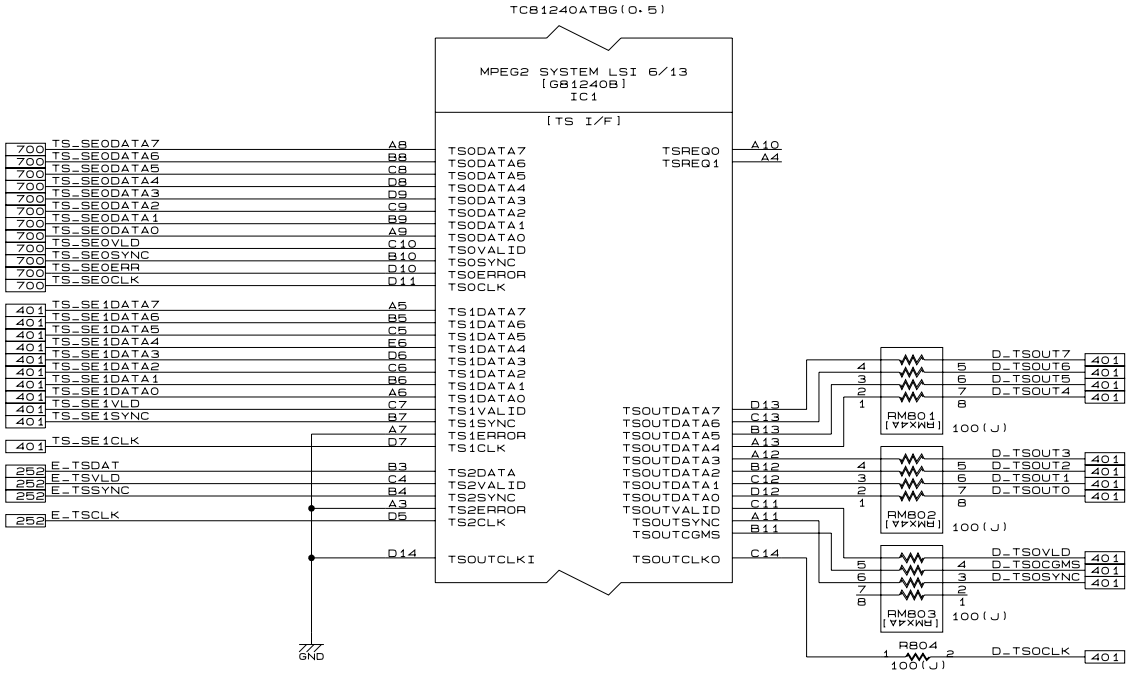
42/50HP95
SEIN FPD FULL NON LAN
1.1VRegulator

SH. NO.
102



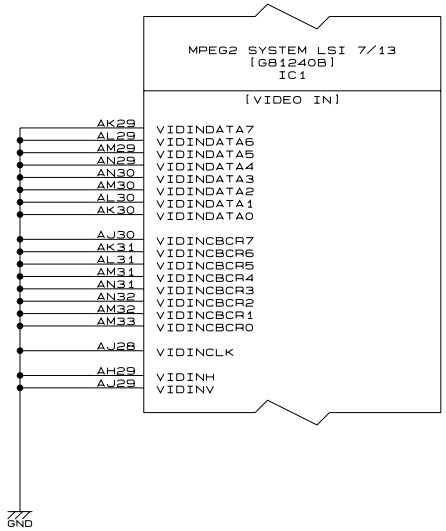
42/50HP95
SEIN FPD FULL NON LAN
T313(Power)

SH. NO.
103



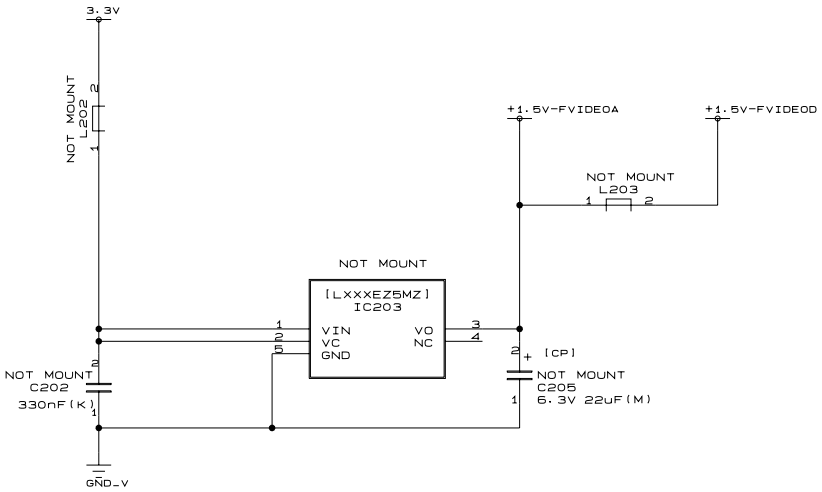
42/50HP95
SEIN FPD FULL NON LAN
Seine TS I/F

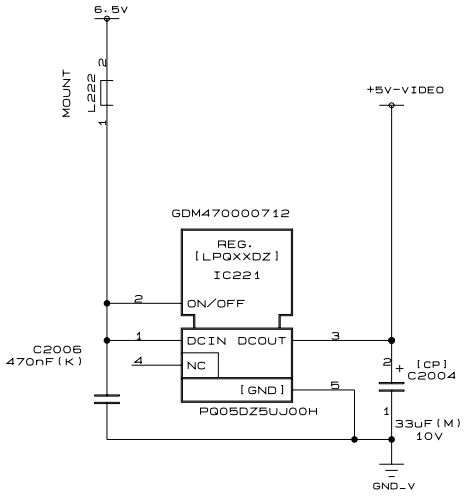
SH. NO.
150

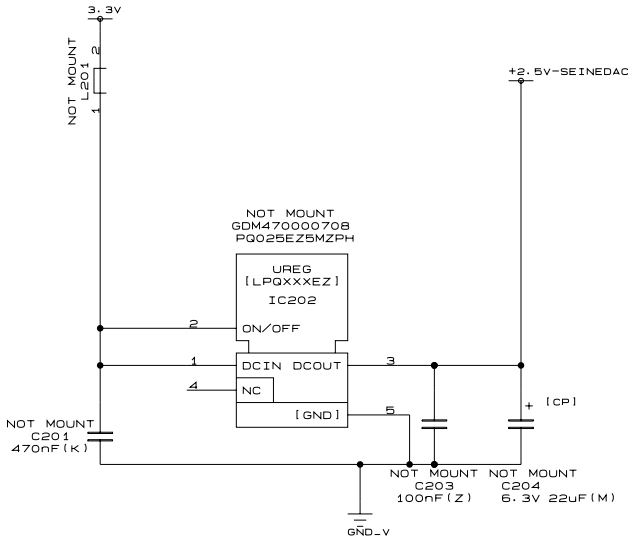


42/50HP95
SEIN FPD FULL NON LAN
SEINE CAPTURE IN

SH. NO.
200

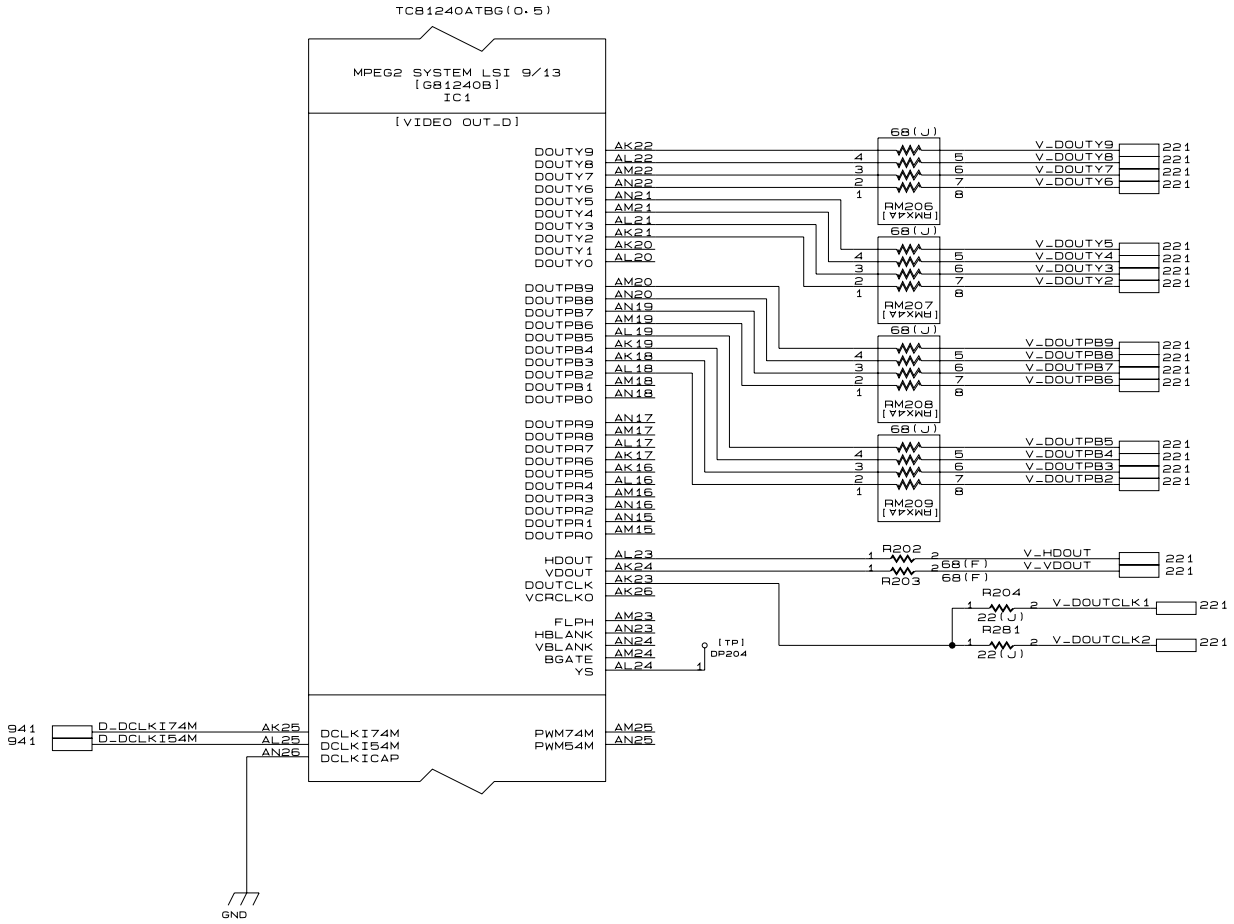






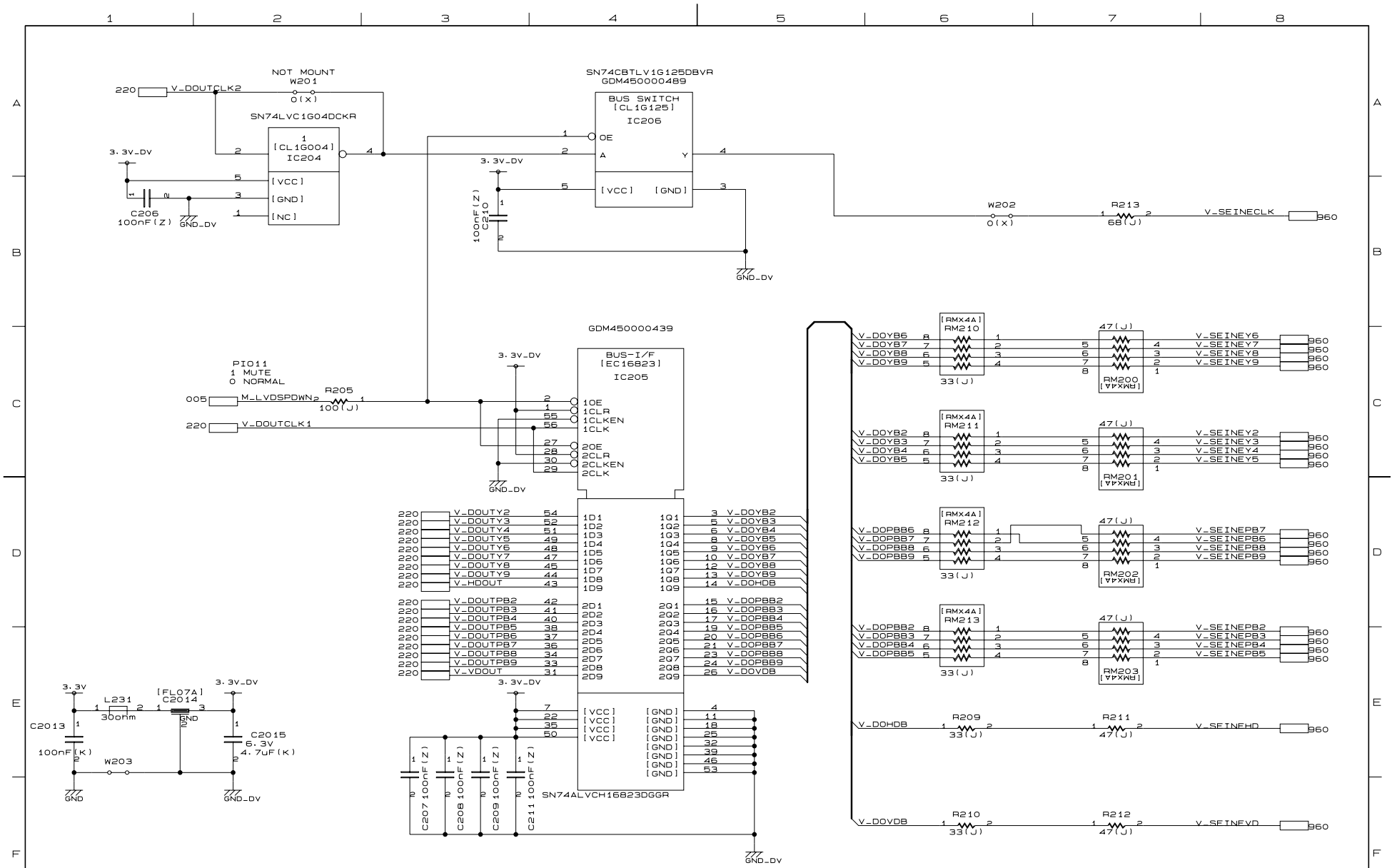
42/50HP95
SEIN FPD FULL NON LAN
VIDEO POWER

SH. NO.
210



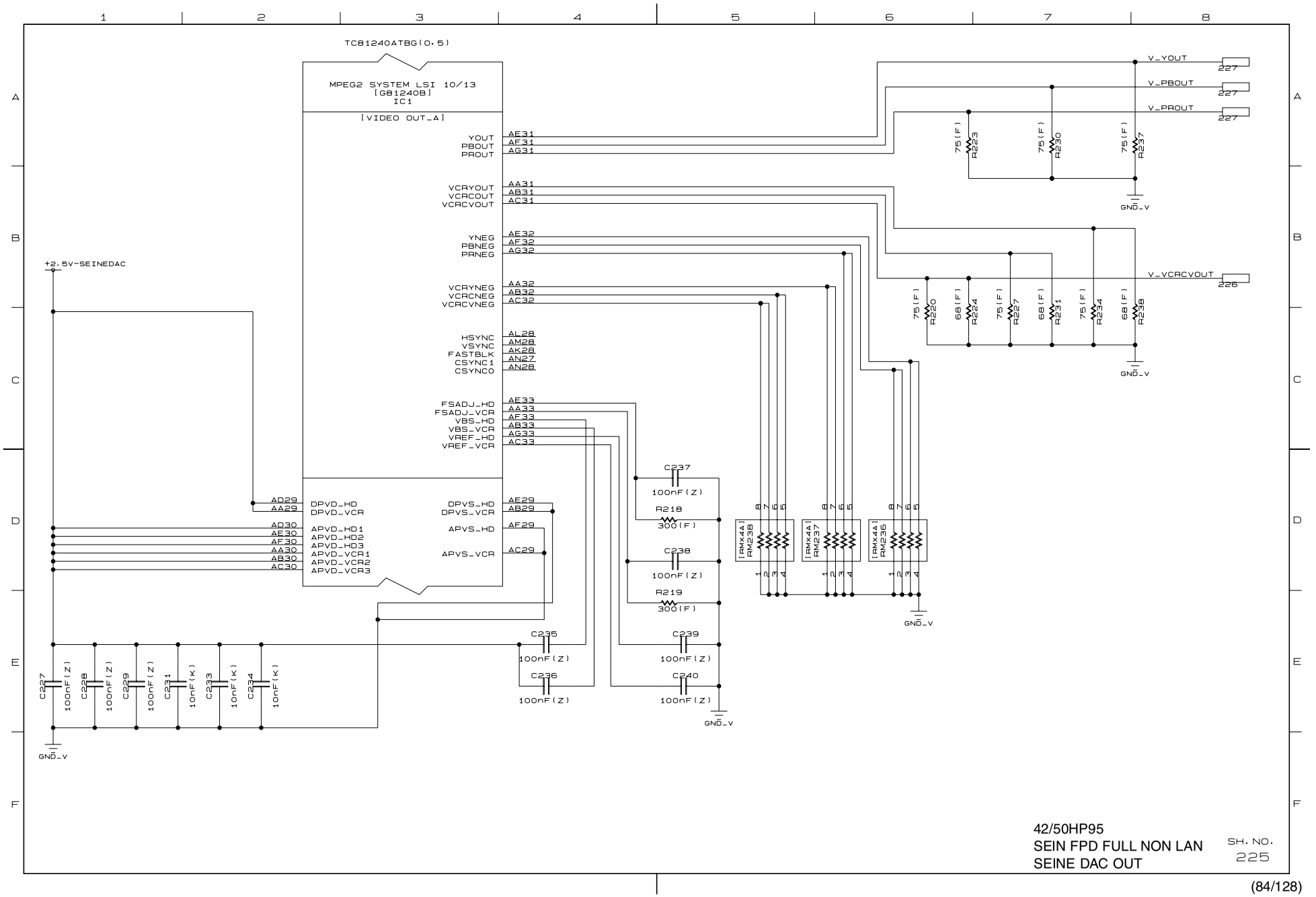
42/50HP95
SEIN FPD FULL NON LAN
SEINE DIGITAL OUT

SH. NO.
220

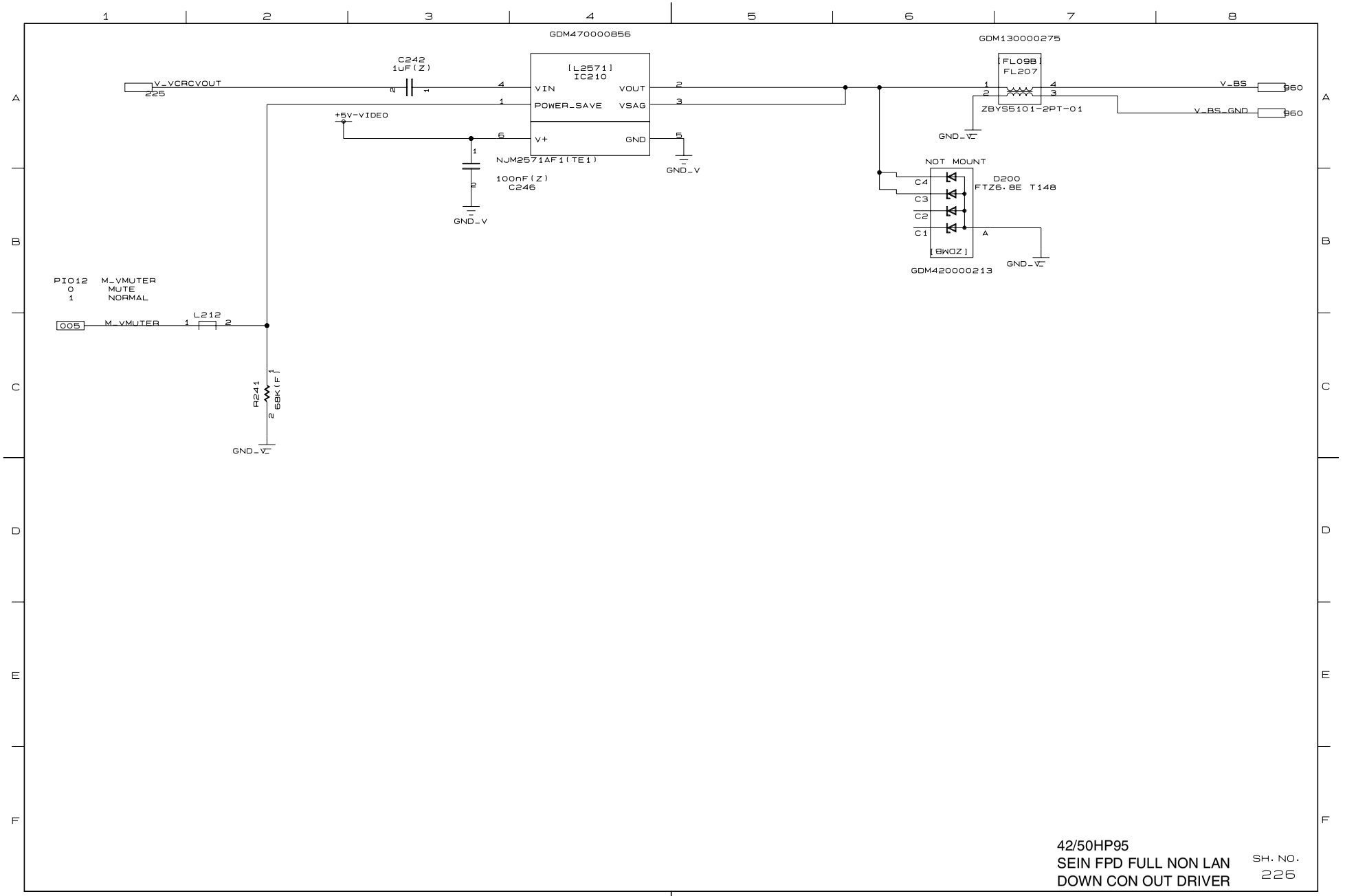


42/50HP95
SEIN FPD FULL NON LAN
SEINE-BEP IF

SH. NO.
221

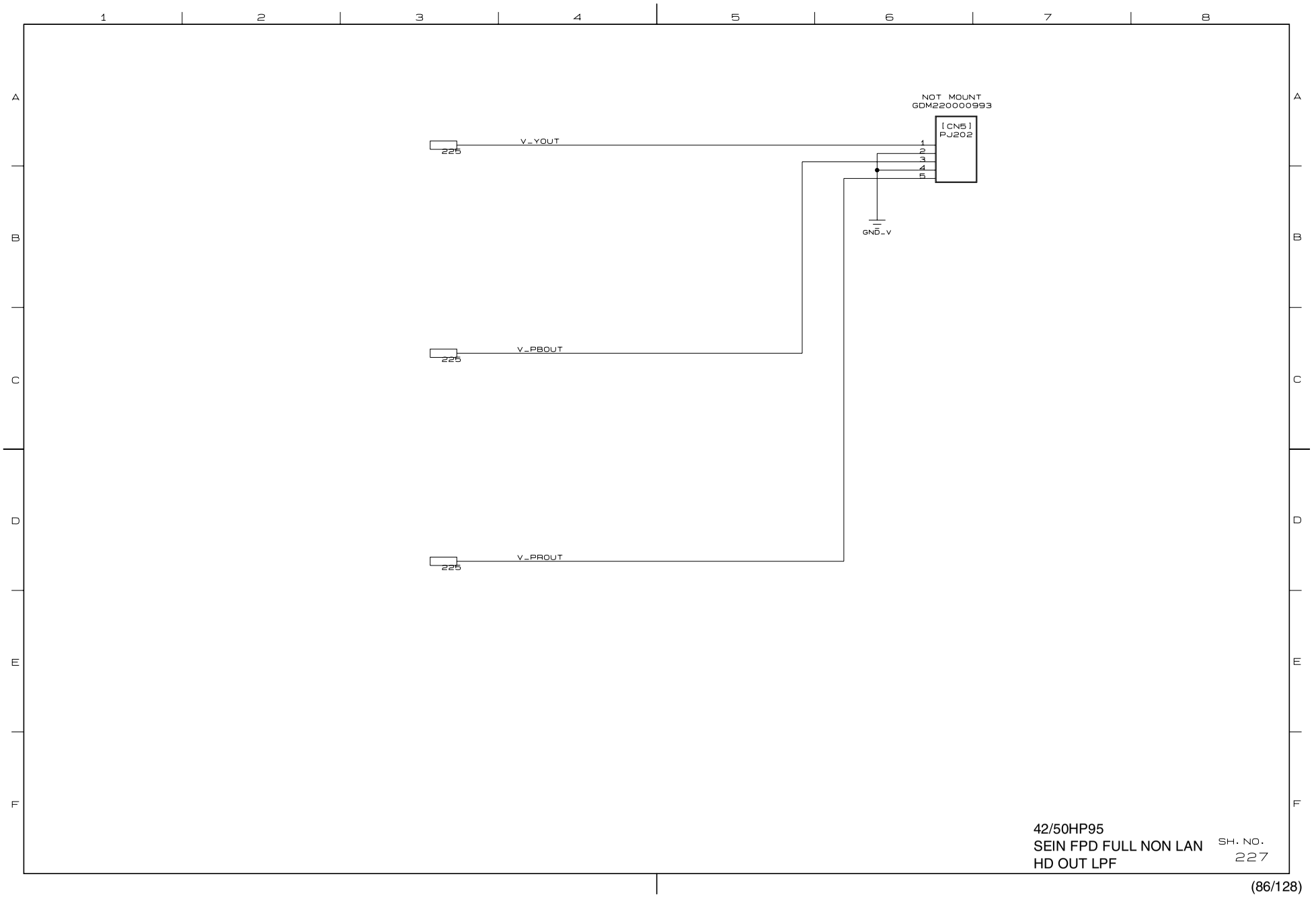

TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 10/13
[GB1240B]
IC1
[VIDEO OUT_A]
YOUT
PBOUT
PROUT
VCRYOUT
VCRCOUT
VCRCVOUT
YNEG
PBNEG
PRNEG
VCRYNEG
VCRCNEG
VCRCVNEG
HSYNC
VSYNC
FASTBLK
CSYNC1
CSYNC0
FSADJ_HD
FSADJ_VCR
VBS_HD
VBS_VCR
VREF_HD
VREF_VCR
DPVD_HD
DPVD_VCR
APVD_HD1
APVD_HD2
APVD_HD3
APVD_VCR1
APVD_VCR2
APVD_VCR3
DPVS_HD
DPVS_VCR
APVS_HD
APVS_VCR
+2.5V-SEINEDAC
V_YOUT
V_PBOUT
V_PROUT
V_VCRCVOUT
GND_V
R218
R219
300(F)
100nF(Z)
10nF(K)
75(F)
68(F)
42/50HP95
SEIN FPD FULL NON LAN
SEINE DAC OUT
SH. NO.
225

(84/128)



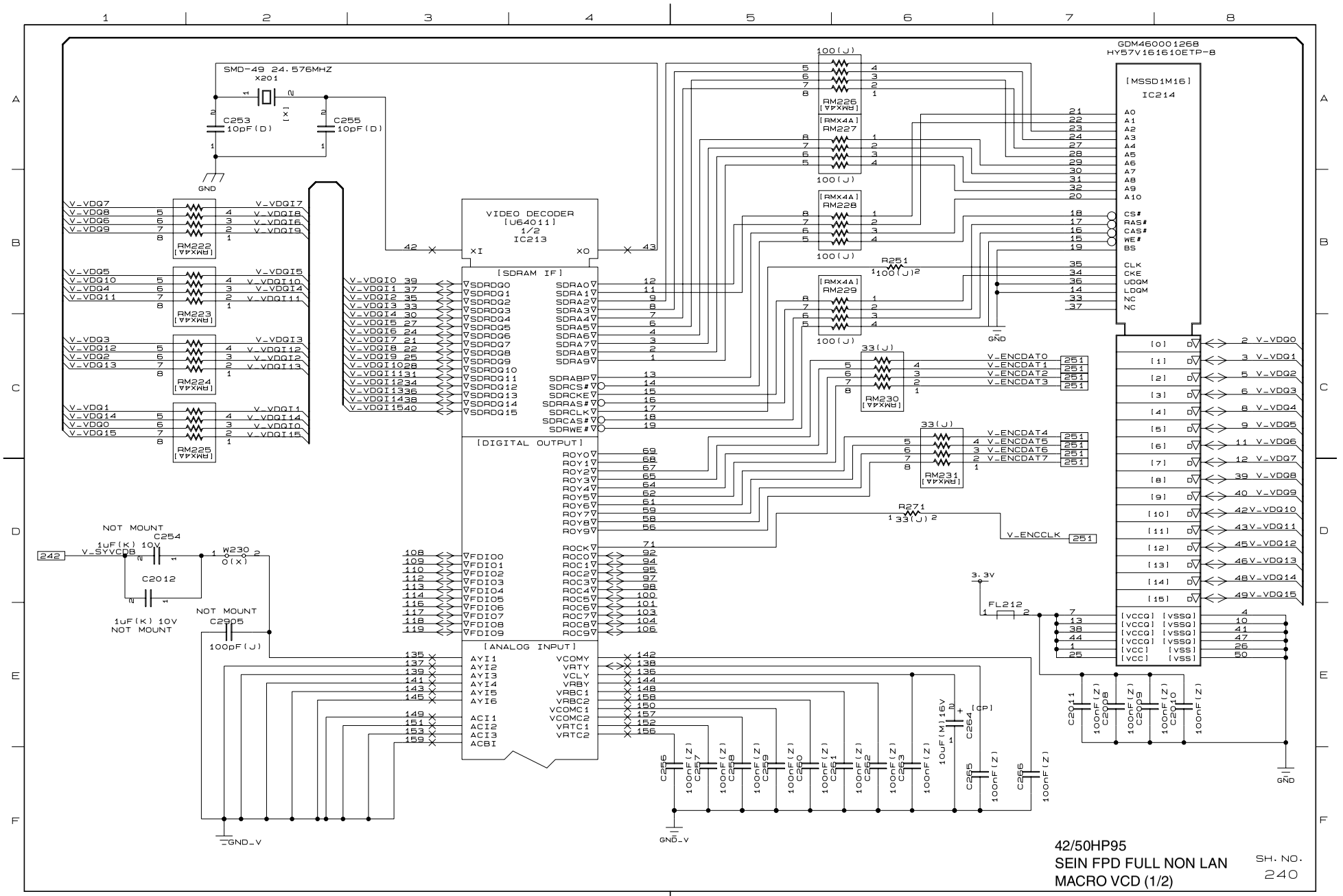
42/50HP95
SEIN FPD FULL NON LAN
DOWN CON OUT DRIVER

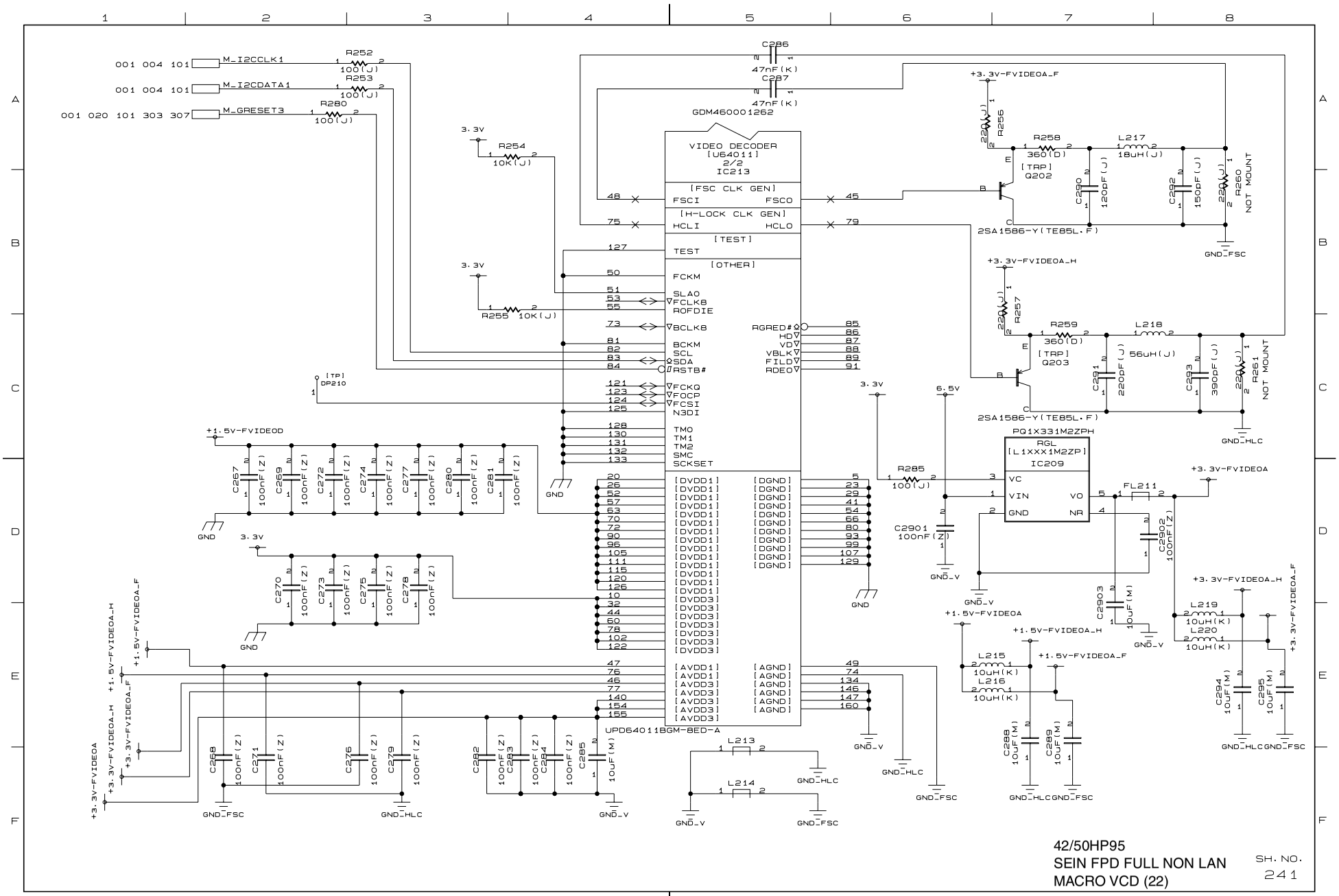
SH. NO.
226

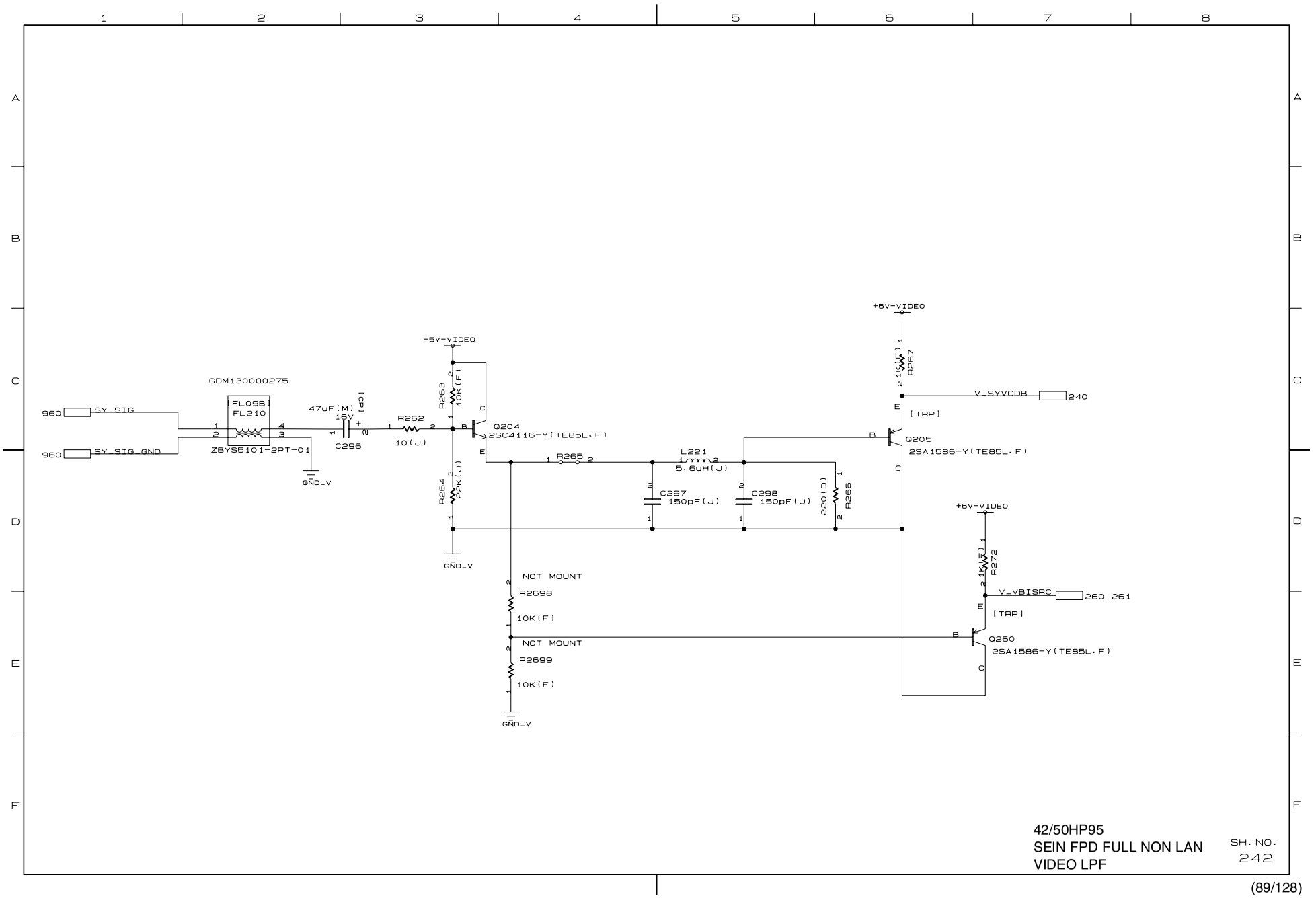


42/50HP95
SEIN FPD FULL NON LAN
HD OUT LPF

SH. NO.
227

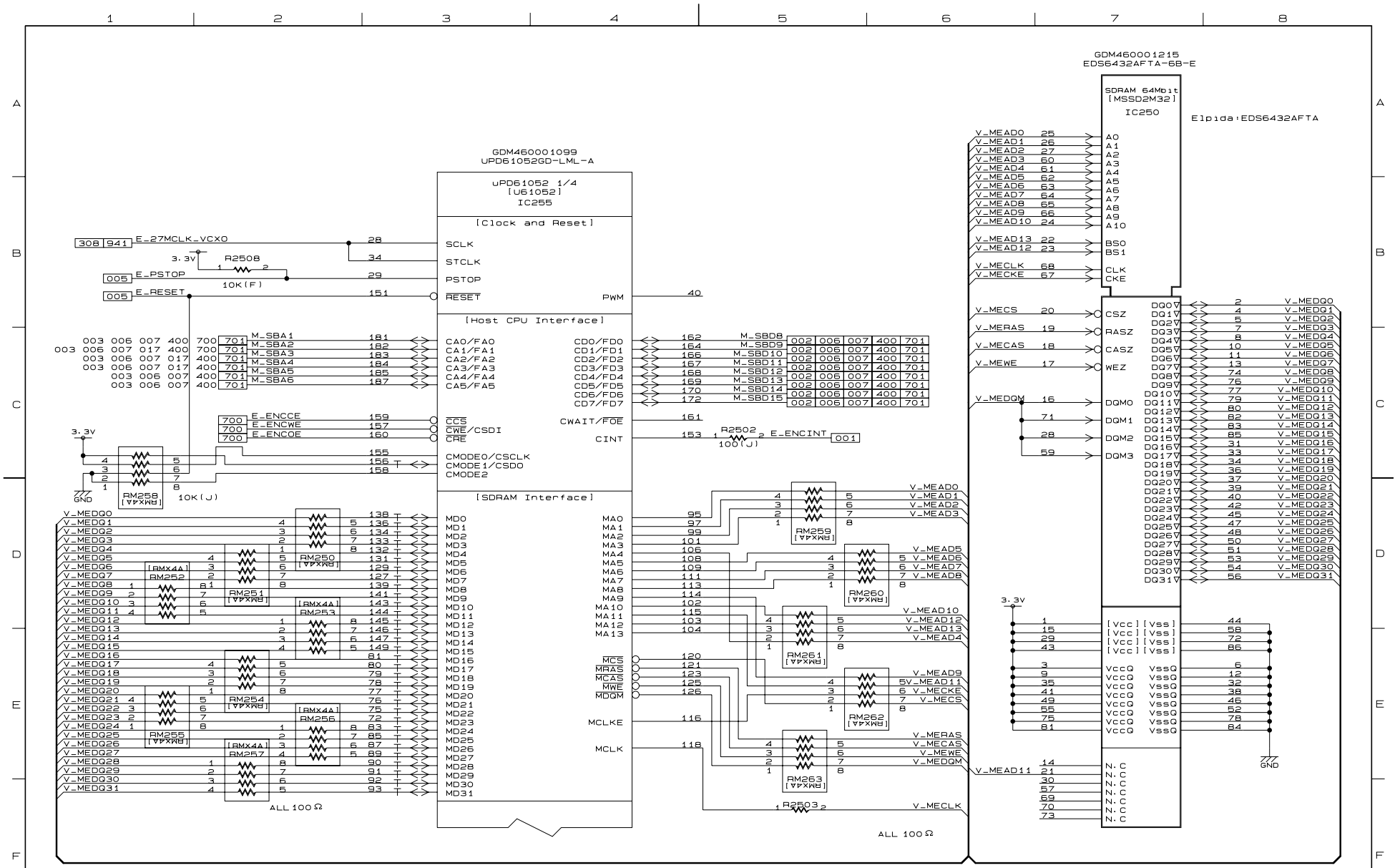

SMD-49 24.576MHZ
X201
C253 10pF(D)
C255 10pF(D)
GND
VIDEO DECODER
[U64011]
1/2
IC213
XI
XO
[SDRAM IF]
[DIGITAL OUTPUT]
[ANALOG INPUT]
GDM460001268
HY57V161610ETP-8
[MSSD1M16]
IC214
RM222
RM223
RM224
RM225
RM226
RM227
RM228
RM229
RM230
RM231
R251 100(J)2
R271 33(J)2
V_ENCCLK
V_ENCDAT0
V_ENCDAT1
V_ENCDAT2
V_ENCDAT3
V_ENCDAT4
V_ENCDAT5
V_ENCDAT6
V_ENCDAT7
NOT MOUNT
C254 1uF(K) 10V
V_SYVCDB
W230 0(X)
C2012
C2905 100pF(J)
FL212
3.3V
GND_V
42/50HP95
SEIN FPD FULL NON LAN
MACRO VCD (1/2)
SH. NO.
240
(87/128)


VIDEO DECODER
[U64011]
2/2
IC213
UPD64011BGM-8ED-A
M_I2CCLK1
M_I2CDATA1
M_GRESET3
GDM460001262
2SA1586-Y(TE85L,F)
PQ1X331M2ZPH
[L1XXX1M2ZP]
IC209
42/50HP95
SEIN FPD FULL NON LAN
MACRO VCD (22)
SH. NO.
241



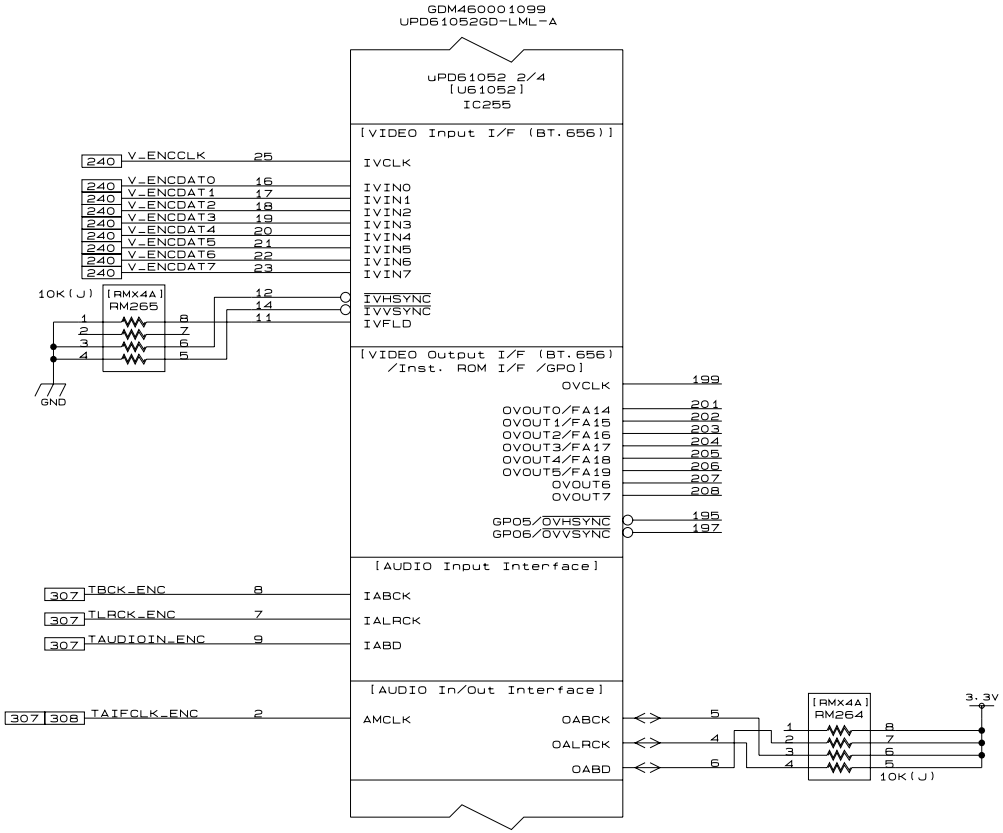
42/50HP95
SEIN FPD FULL NON LAN
VIDEO LPF

SH. NO.
242



42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (CLK, SDRAM)

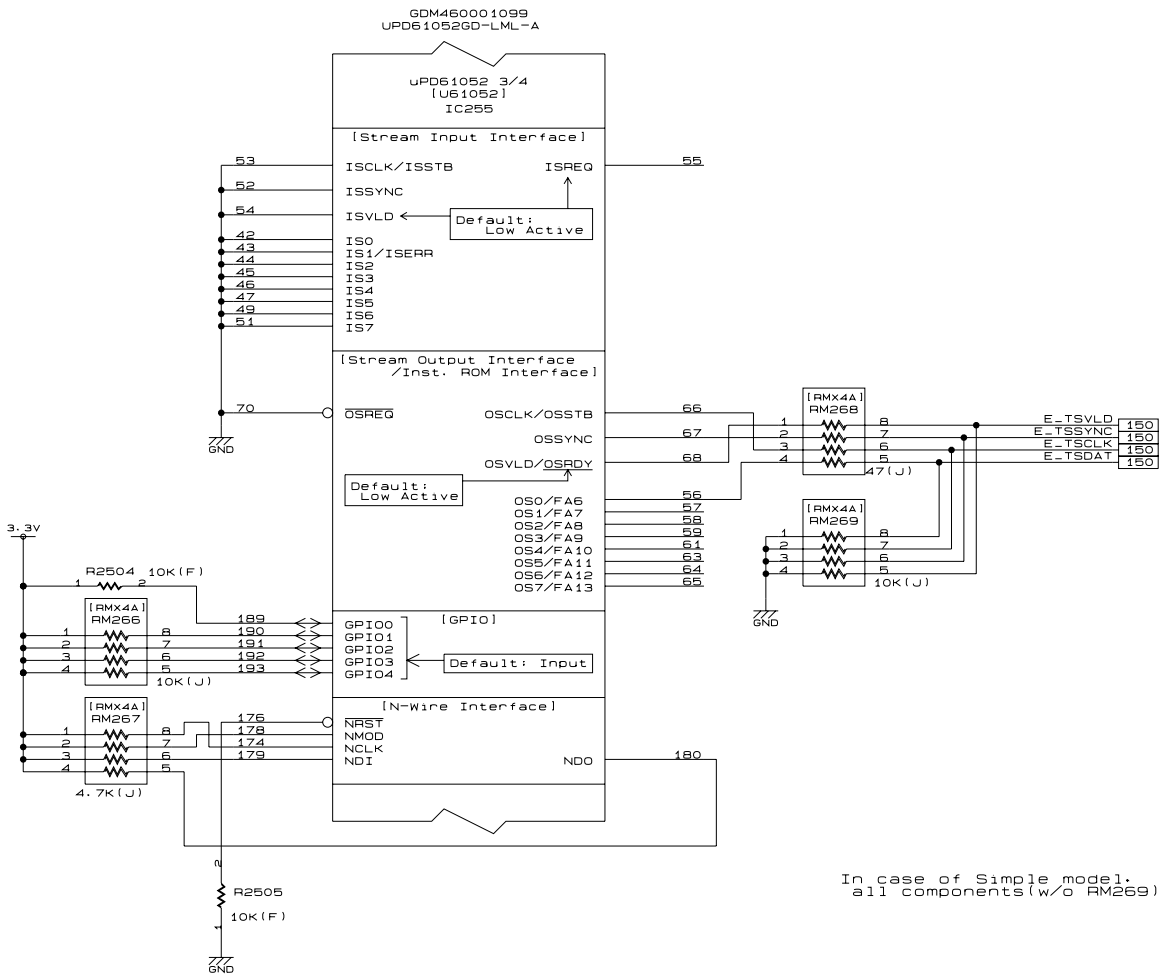
SH. NO.
250



In case of Simple model.
all components are not mounted.

42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (AV I/F)

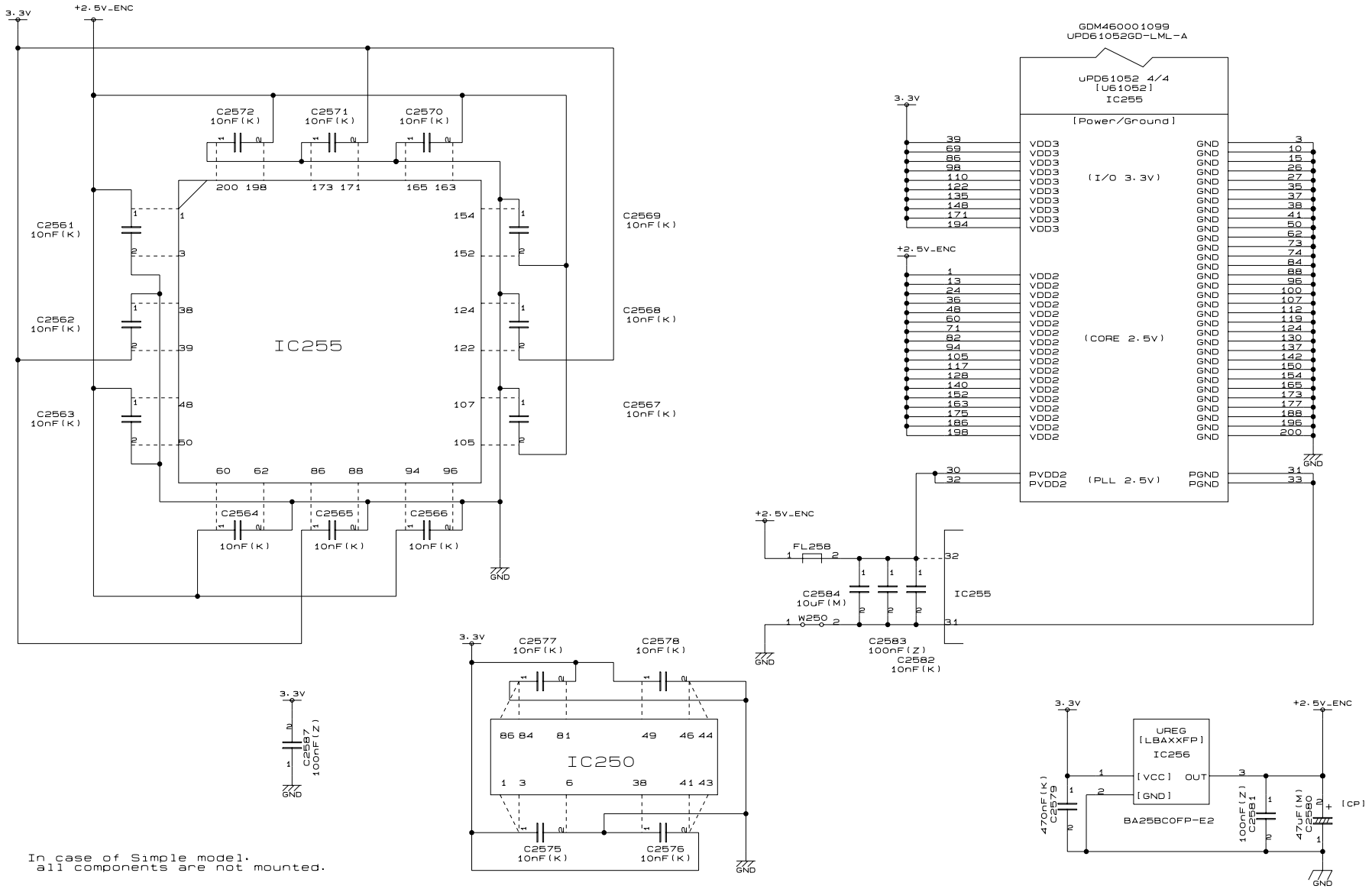
SH. NO.
251



In case of Simple model.
all components(w/o RM269) are not mounted.

42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (STREAM I/F)

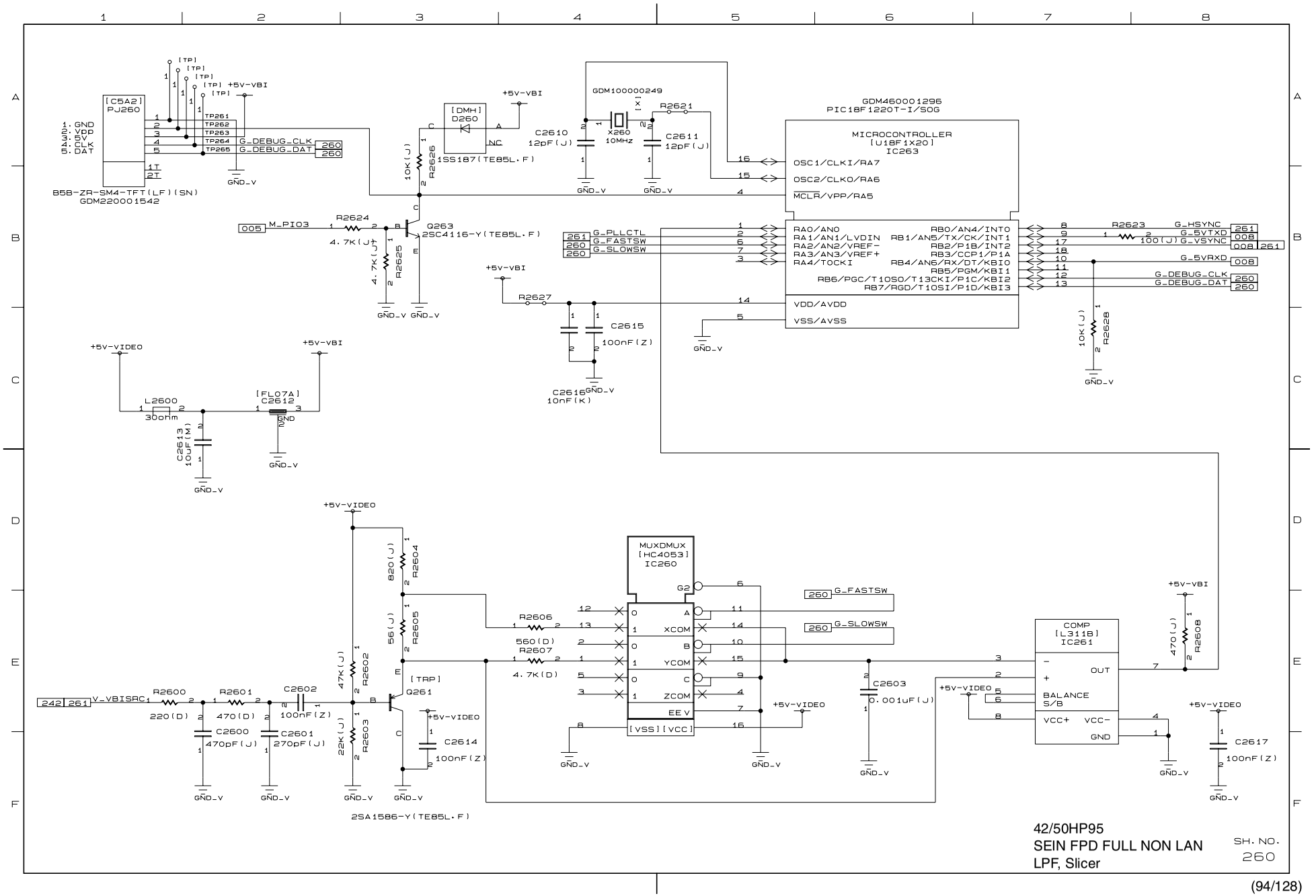
SH. NO.
252

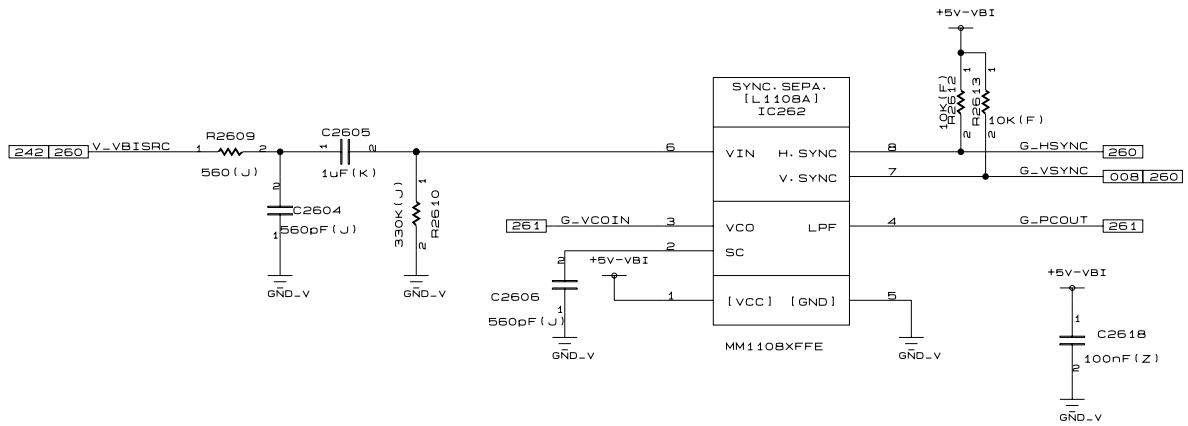


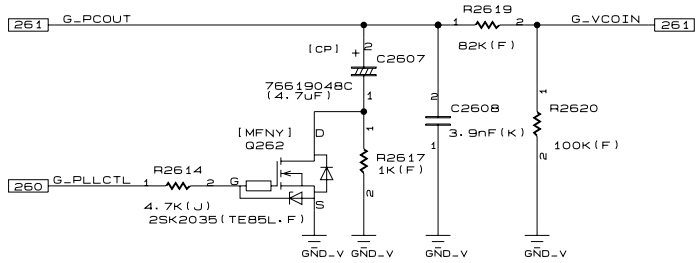
In case of Simple model.
all components are not mounted.

42/50HP95
SEIN FPD FULL NON LAN
MPEG Enc. (POWER)

SH. NO.
253

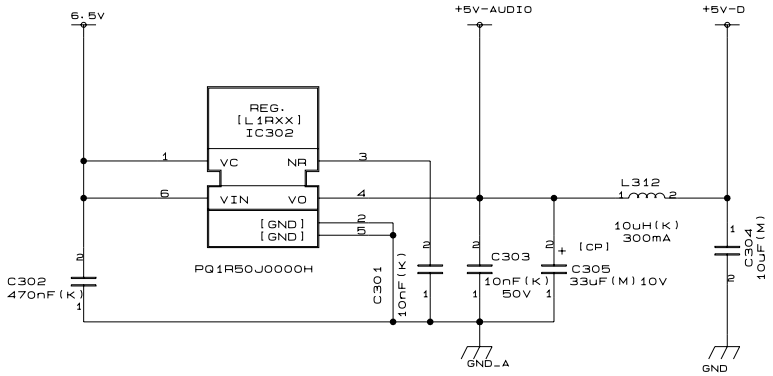

[C5A2]
PJ260
1. GND
2. VDD
3. 5V
4. CLK
5. DAT
B5B-ZR-SM4-TFT(LF)(SN)
GDM220001542
TP261
TP262
TP263
TP264
TP265
G_DEBUG_CLK
G_DEBUG_DAT
[DMH]
D260
1SS187(TE85L.F)
10K(J)
R2626
+5V-VBI
GDM100000249
X260
10MHz
C2610
12pF(J)
C2611
12pF(J)
R2621
GDM460001296
PIC18F1220T-I/SO
MICROCONTROLLER
[U18F1X20]
IC263
OSC1/CLKI/RA7
OSC2/CLKO/RA6
MCLR/VPP/RA5
RA0/AN0
RA1/AN1/LVDIN
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/T0CKI
RB0/AN4/INT0
RB1/AN5/TX/CK/INT1
RB2/P1B/INT2
RB3/CCP1/P1A
RB4/AN6/RX/DT/KBI0
RB5/PGM/KBI1
RB6/PGC/T1OSO/T13CKI/P1C/KBI2
RB7/RGD/T1OSI/P1D/KBI3
VDD/AVDD
VSS/AVSS
005 M_PIO3
R2624
4.7K(J)
Q263
2SC4116-Y(TE85L.F)
R2625
4.7K(J)
261 G_PLLCTL
260 G_FASTSW
260 G_SLOWSW
R2623
100(J)
G_HSYNC
G_5VTXD
G_VSYNC
G_5VRXD
G_DEBUG_CLK
G_DEBUG_DAT
R2628
10K(J)
R2627
C2615
100nF(Z)
C2616
10nF(K)
+5V-VIDEO
L2600
30ohm
[FL07A]
C2612
C2613
10uF(M)
R2604
820(J)
R2605
56(J)
R2606
560(D)
R2607
4.7K(D)
MUXDMUX
[HC4053]
IC260
G2
XCOM
YCOM
ZCOM
EE
[VSS]
[VCC]
260 G_FASTSW
260 G_SLOWSW
COMP
[L311B]
IC261
OUT
BALANCE
S/B
VCC+
VCC-
GND
R2608
470(J)
C2603
0.001uF(J)
C2617
100nF(Z)
242 261 V_VBISRC
R2600
220(D)
R2601
470(D)
C2602
100nF(Z)
C2600
470pF(J)
C2601
270pF(J)
R2602
47K(J)
R2603
22K(J)
[TRP]
Q261
C2614
100nF(Z)
2SA1586-Y(TE85L.F)
GND_V
42/50HP95
SEIN FPD FULL NON LAN
LPF, Slicer
SH. NO.
260





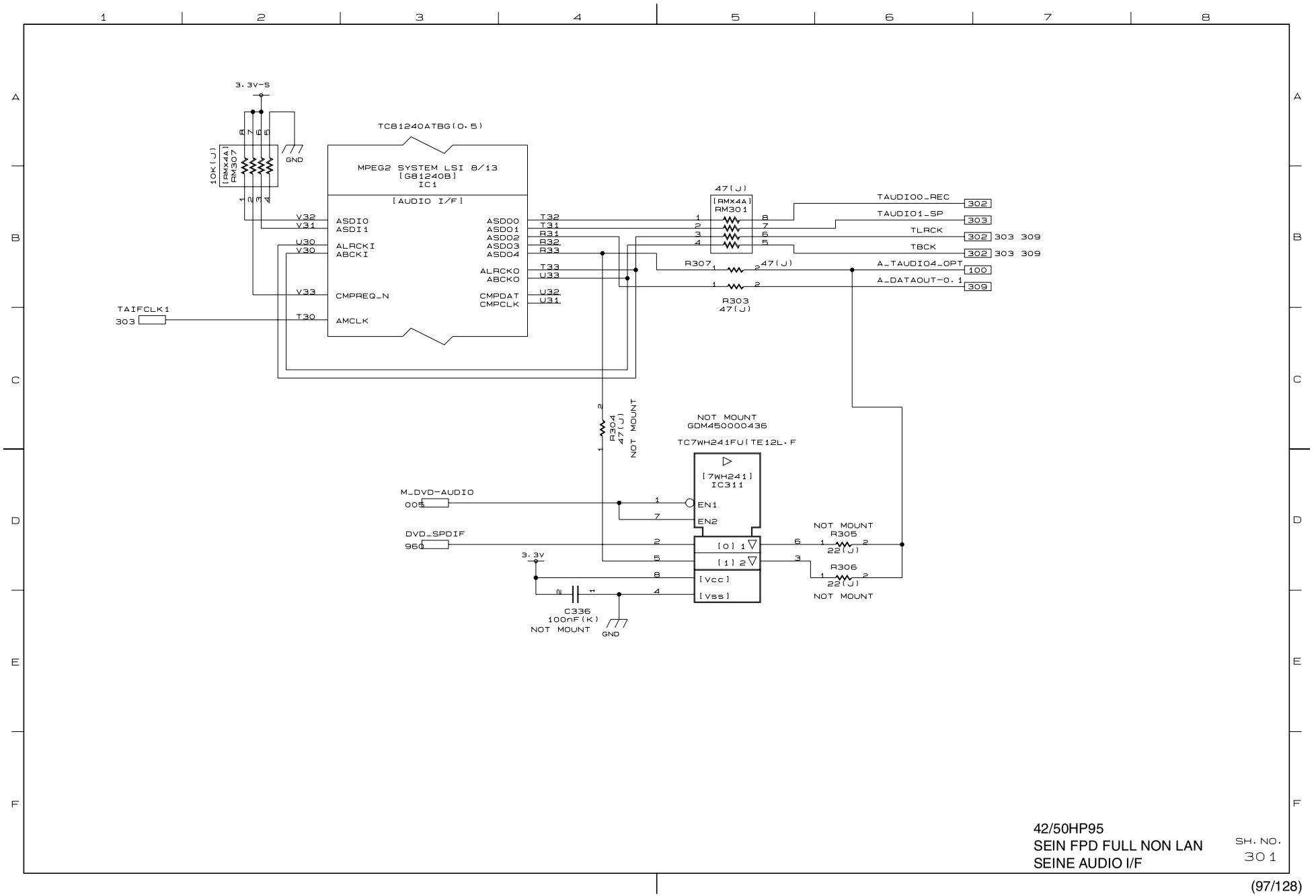
42/50HP95
SEIN FPD FULL NON LAN
H/V Sync Sep.

SH. NO.
261



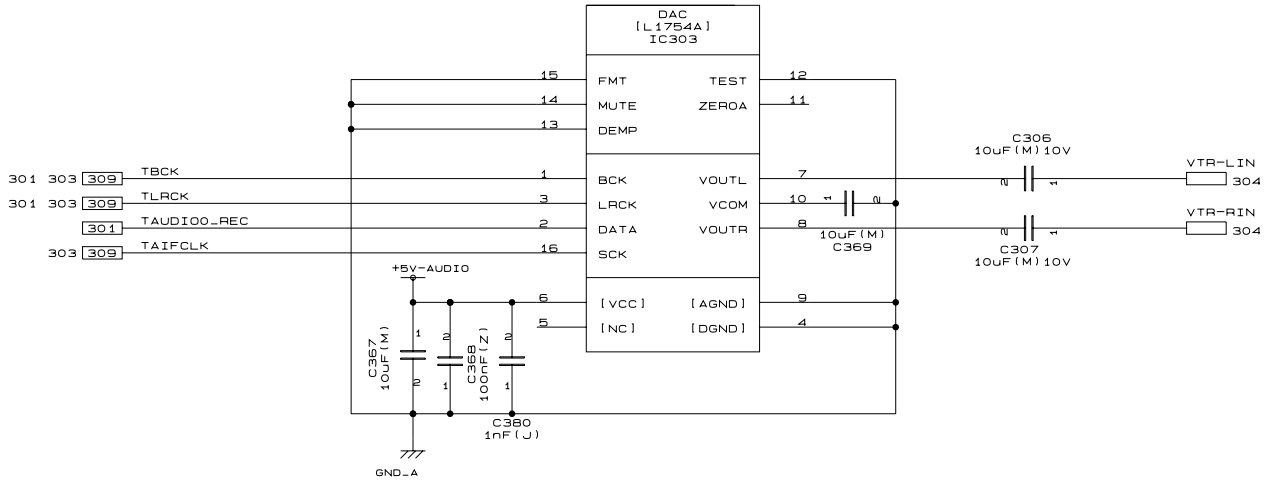
42/50HP95
SEIN FPD FULL NON LAN
AUDIO POWER

SH. NO.
300



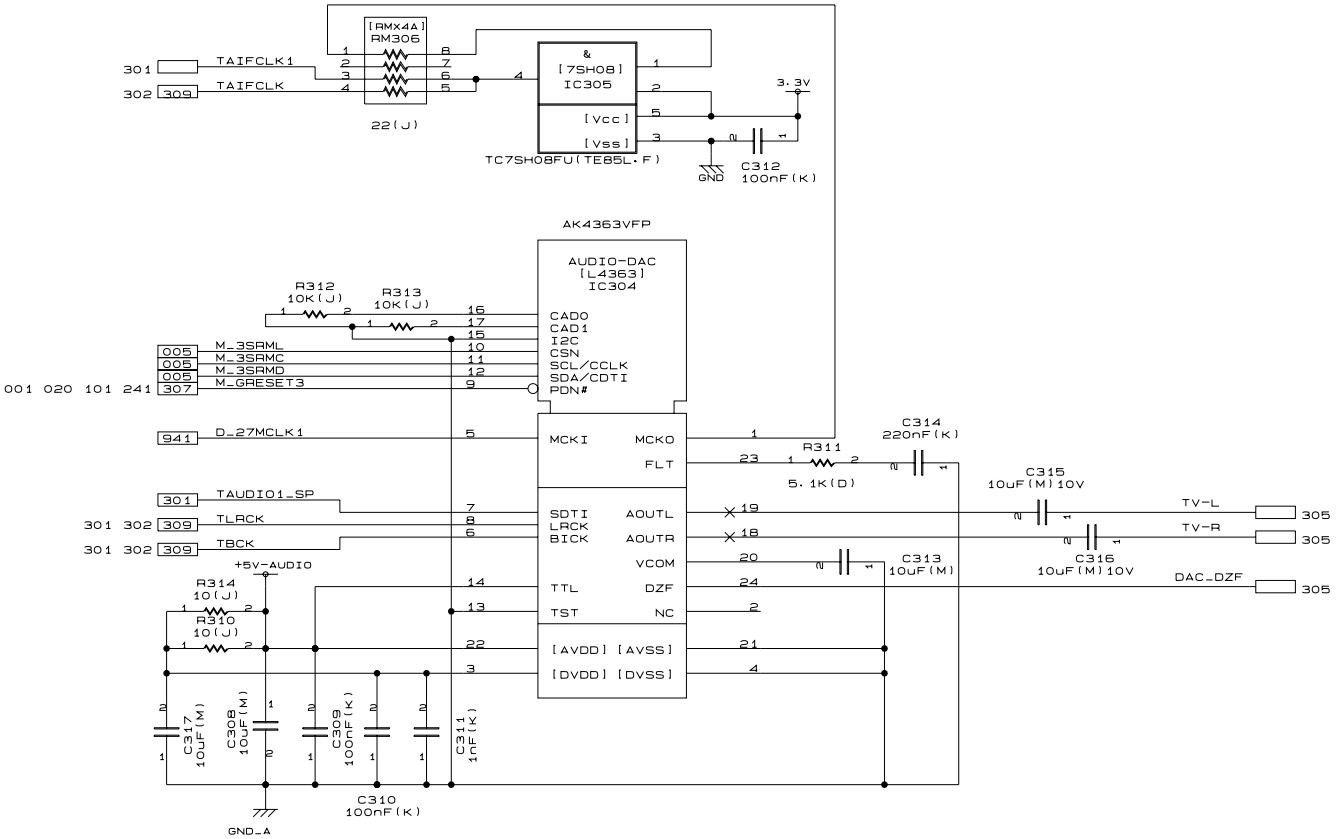
42/50HP95
SEIN FPD FULL NON LAN
SEINE AUDIO I/F

SH. NO.
301



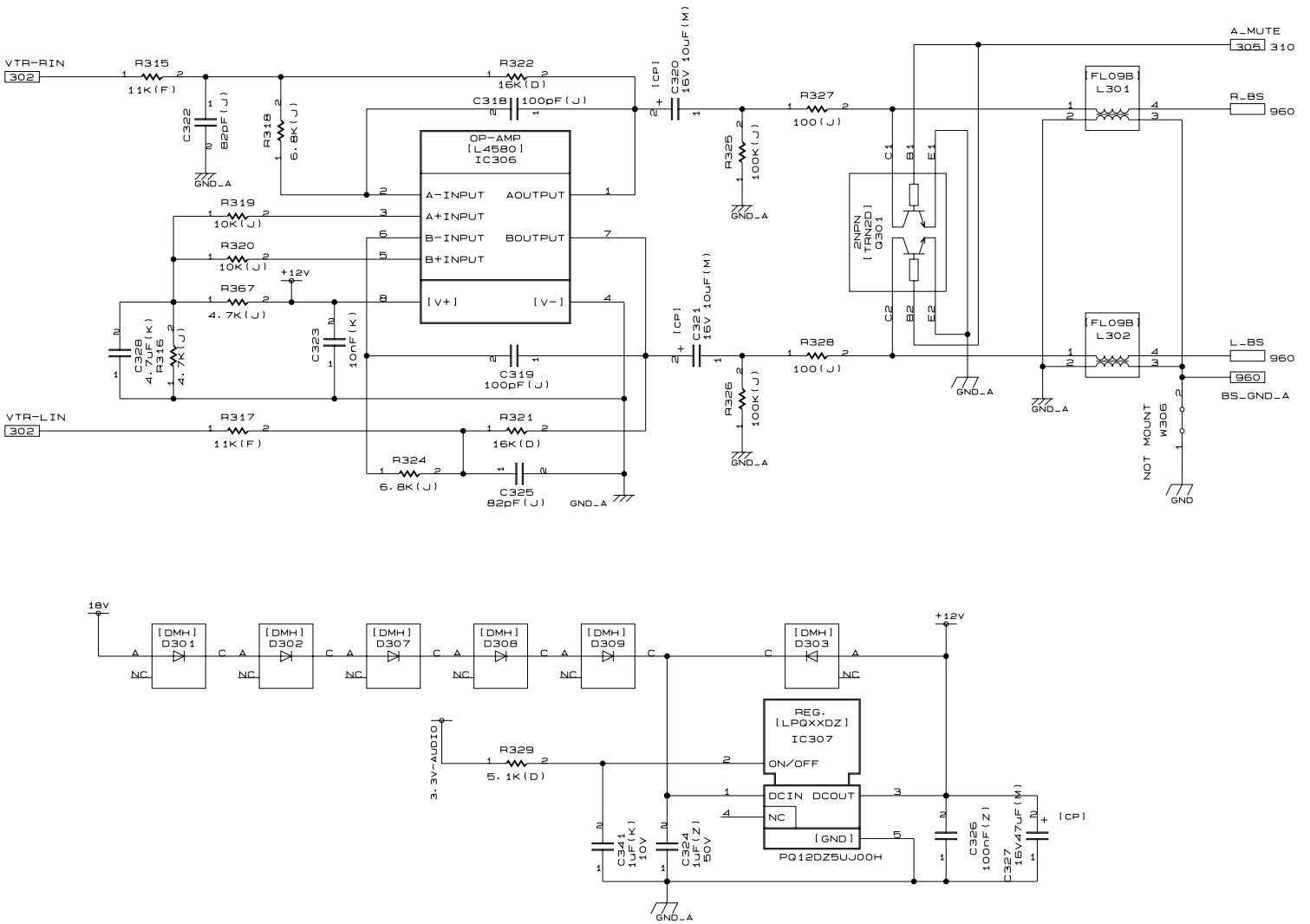
42/50HP95
SEIN FPD FULL NON LAN
AUDIO DAC

SH. NO.
302



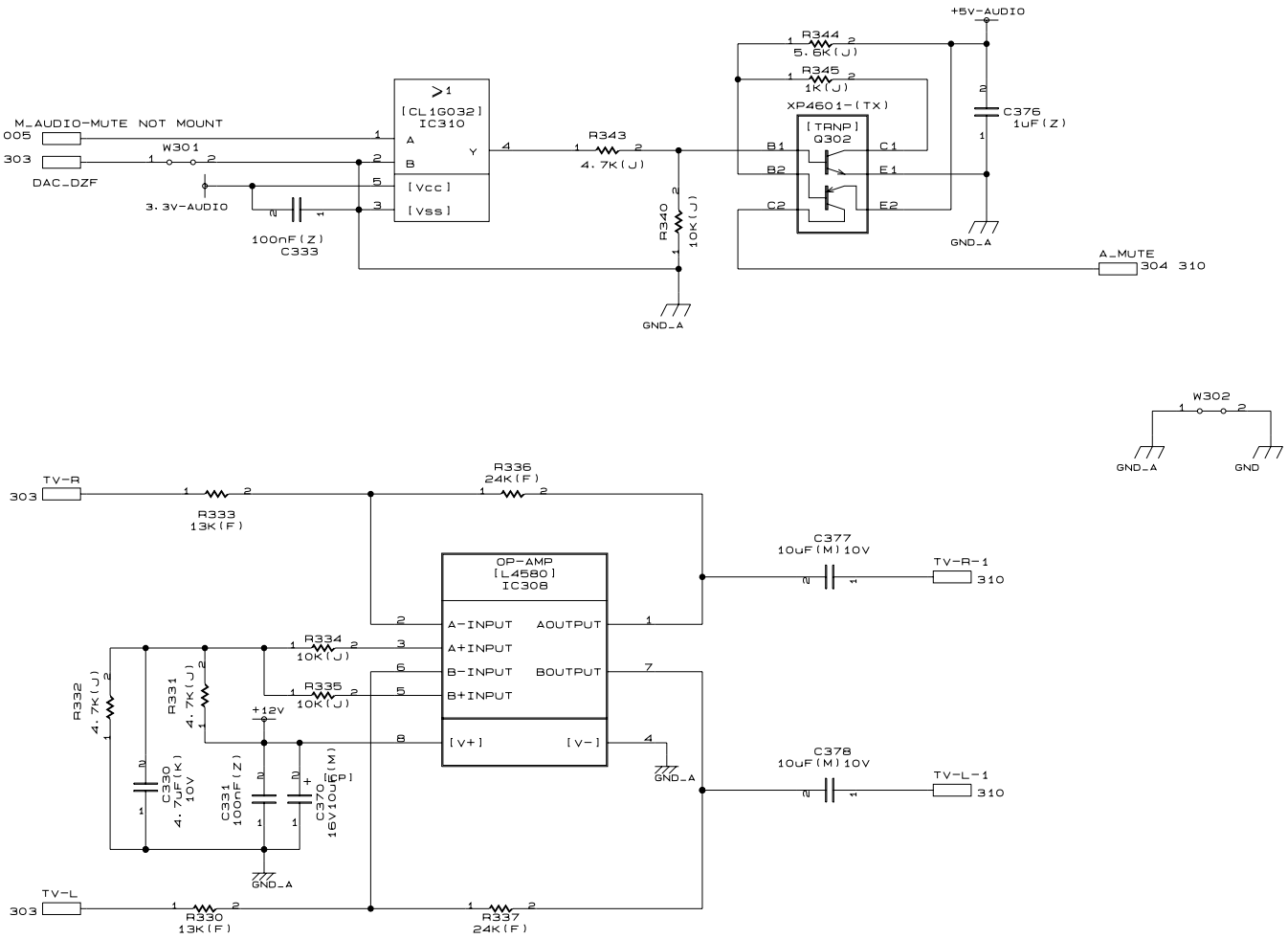
42/50HP95
SEIN FPD FULL NON LAN
AUDIO PLL/DAC

SH. NO.
303



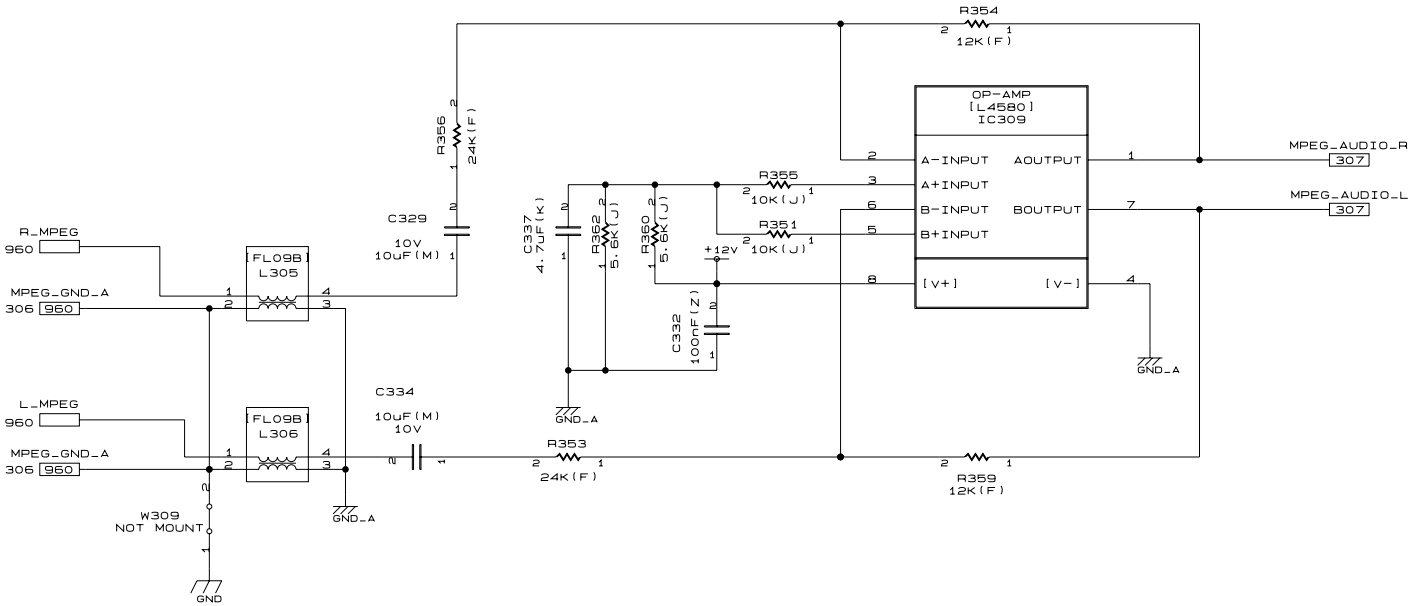
42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

SH. NO.
304



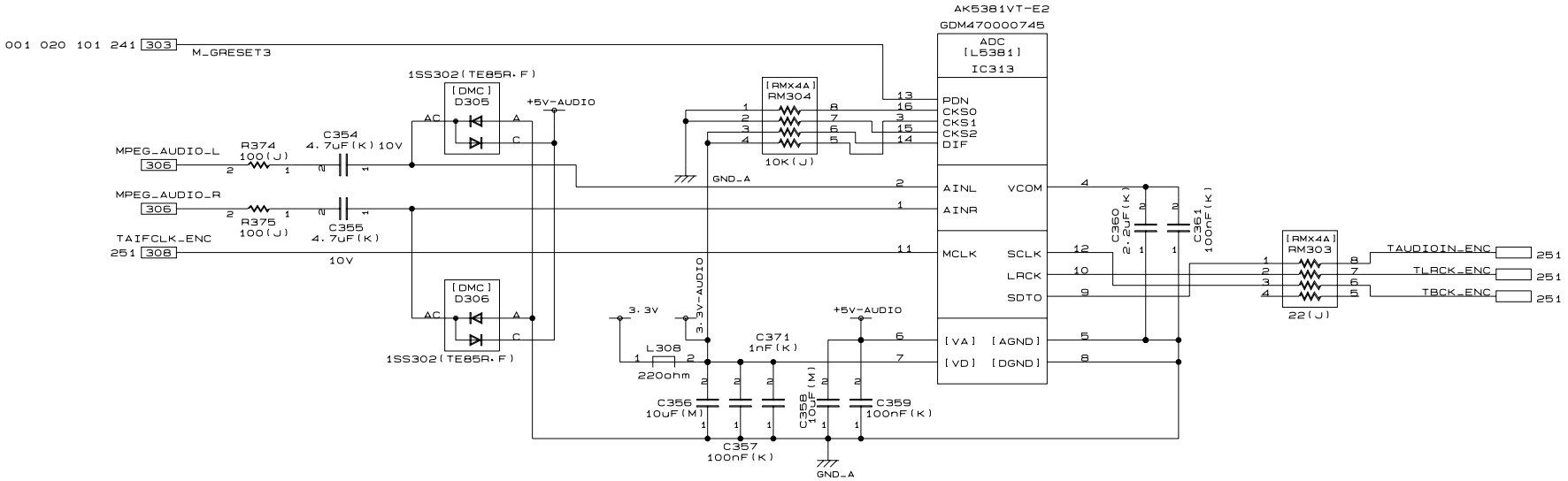
42/50HP95
SEIN FPD FULL NON LAN
AUDIO SP OUT

SH. NO.
305



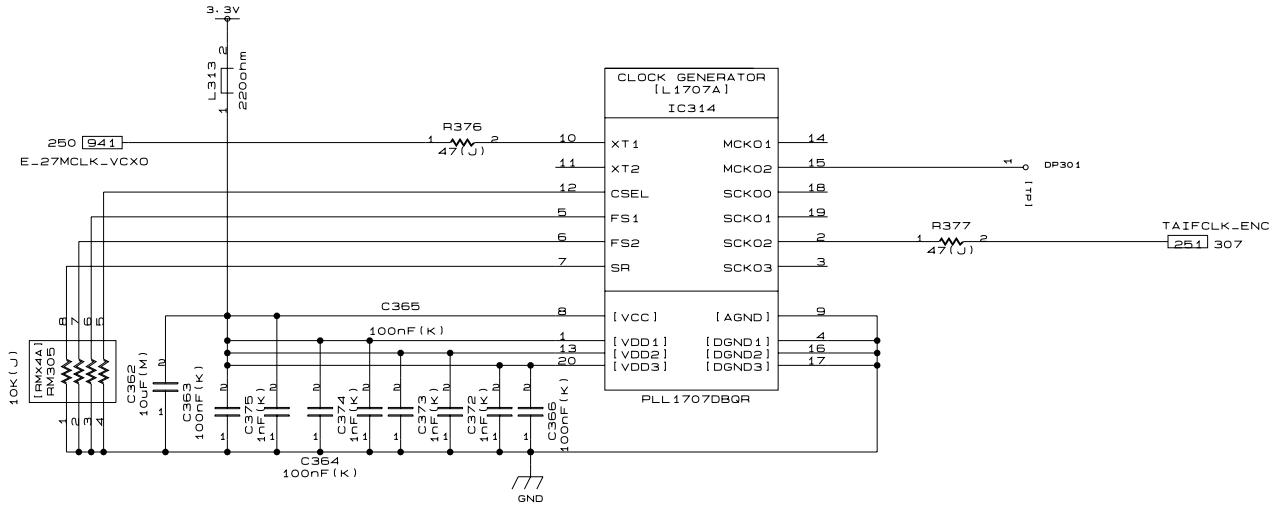
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO TV IN

SH. NO.
306



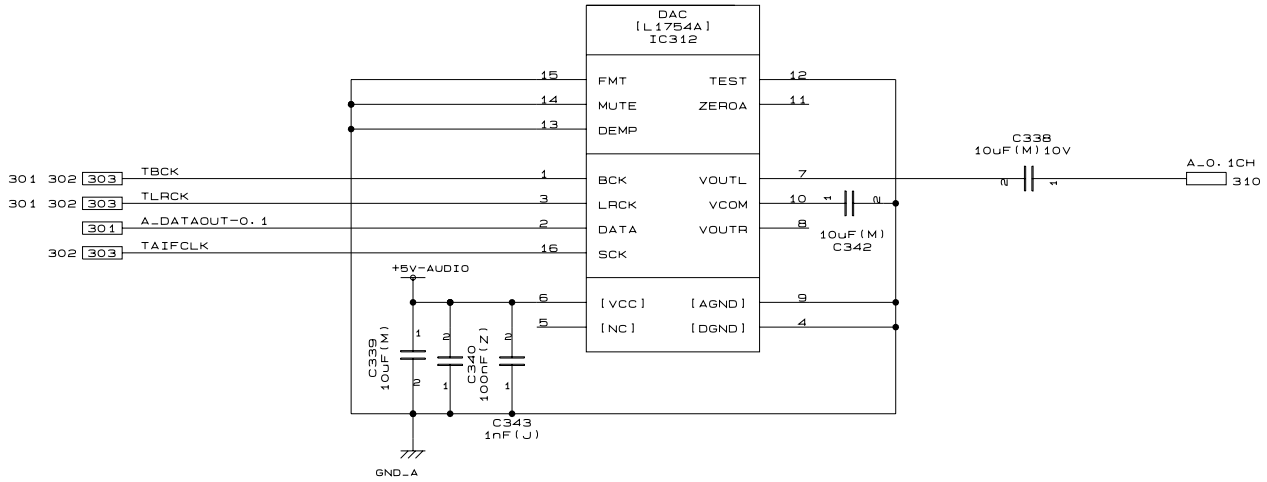
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO ADC

SH. NO.
307



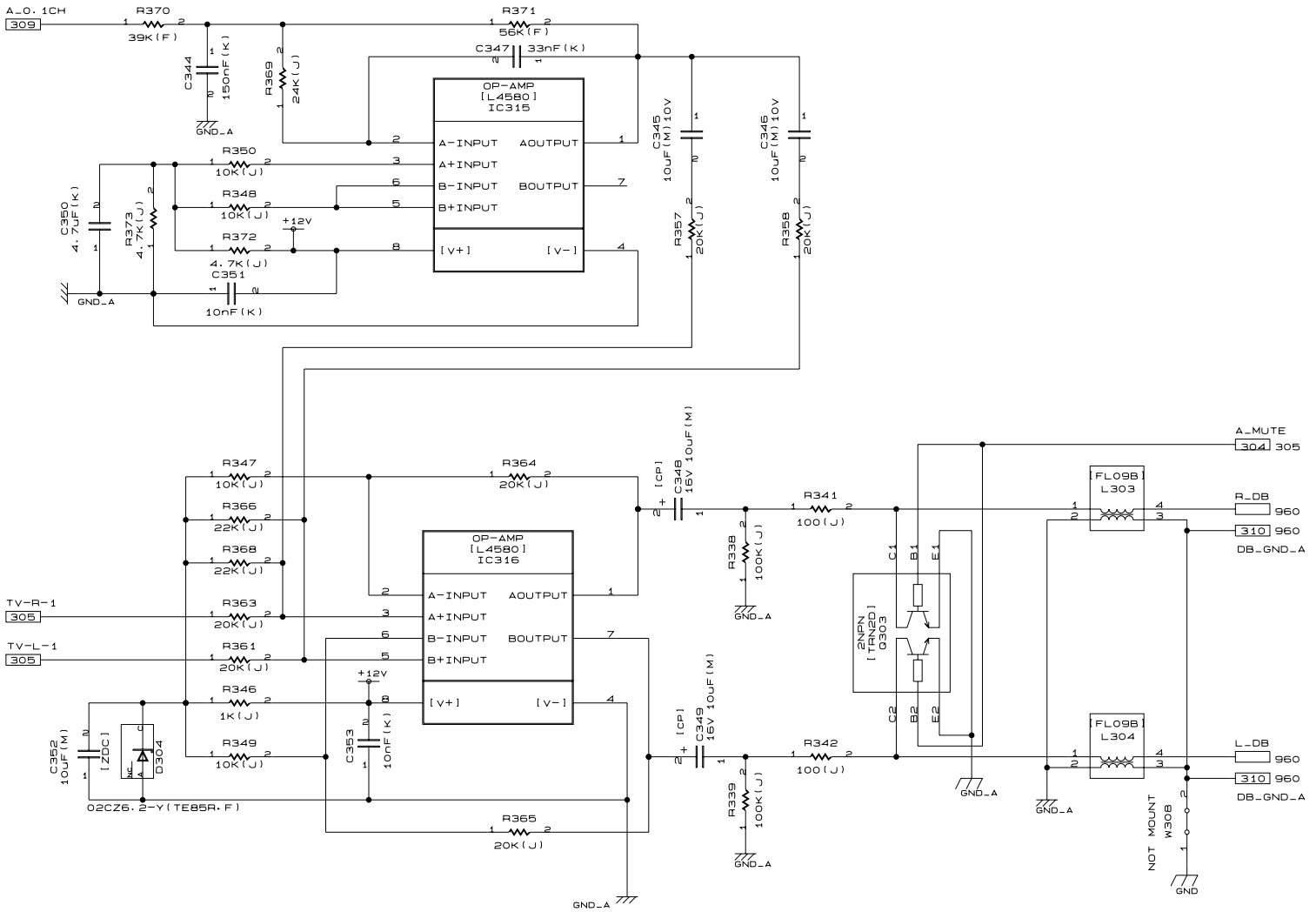
42/50HP95
SEIN FPD FULL NON LAN
MPEG2 AUDIO PLL

SH. NO.
308



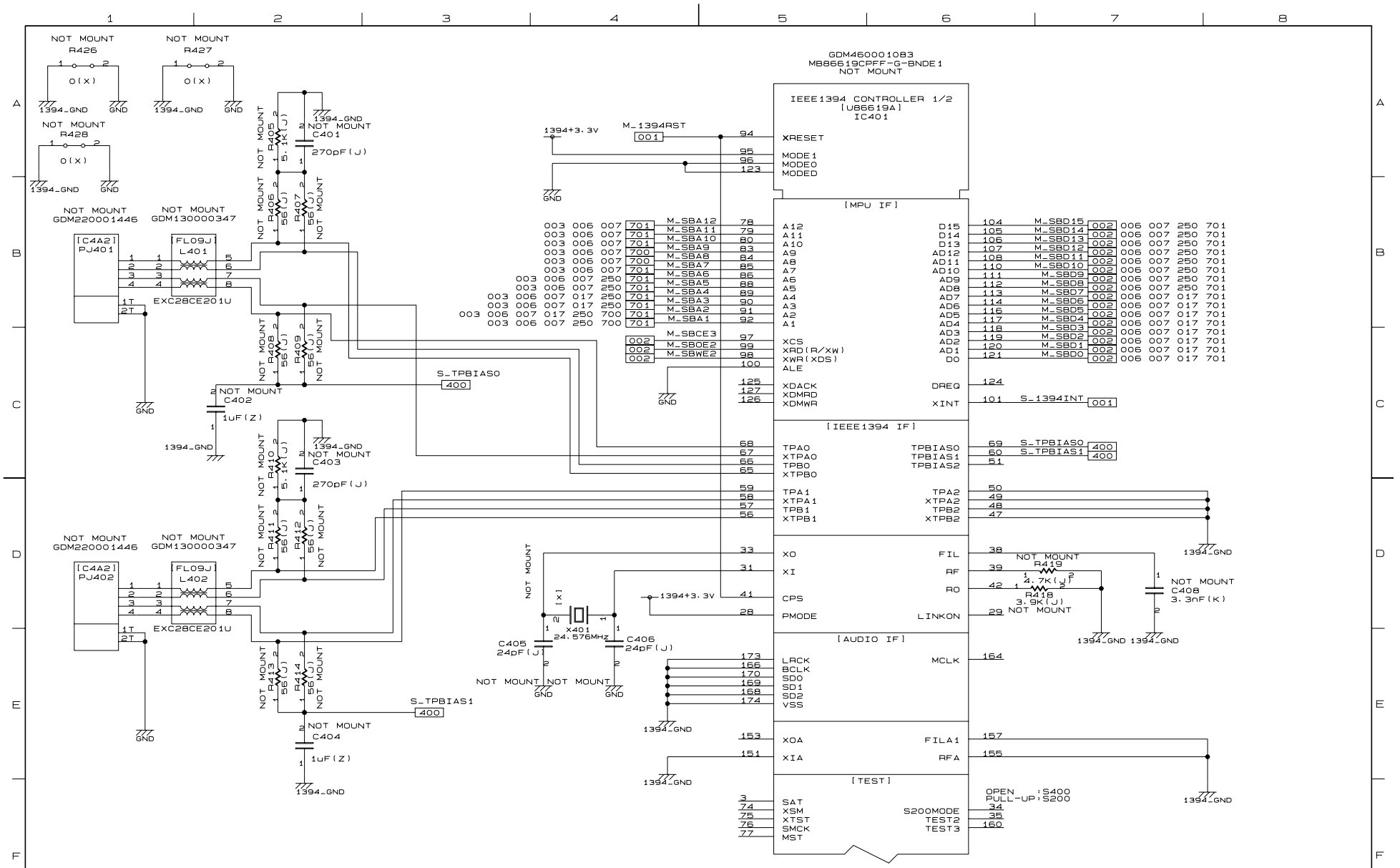
42/50HP95
SEIN FPD FULL NON LAN
AUDIO DAC 0.1CH

SH. NO.
309



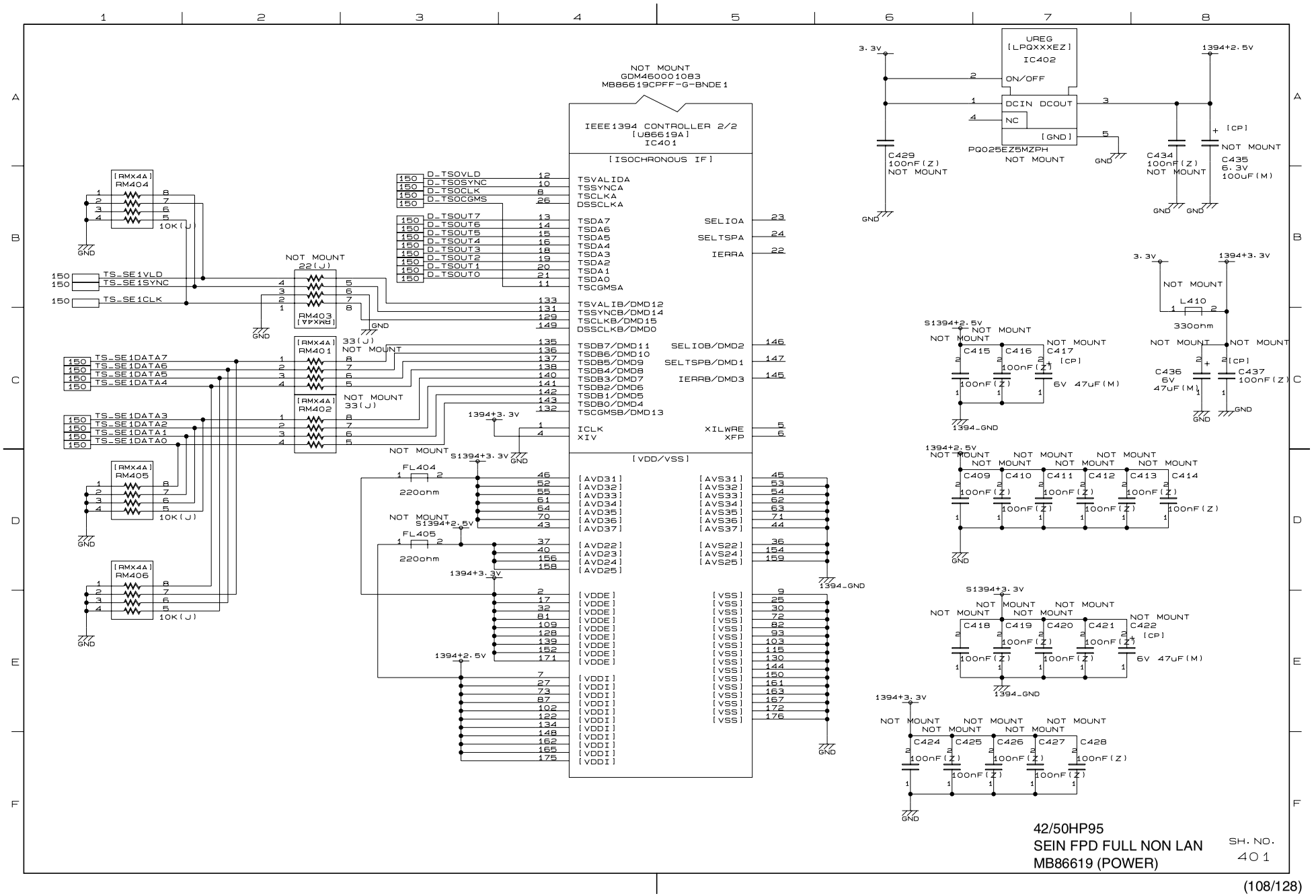
42/50HP95
SEIN FPD FULL NON LAN
AUDIO VTR OUT

SH. NO.
310



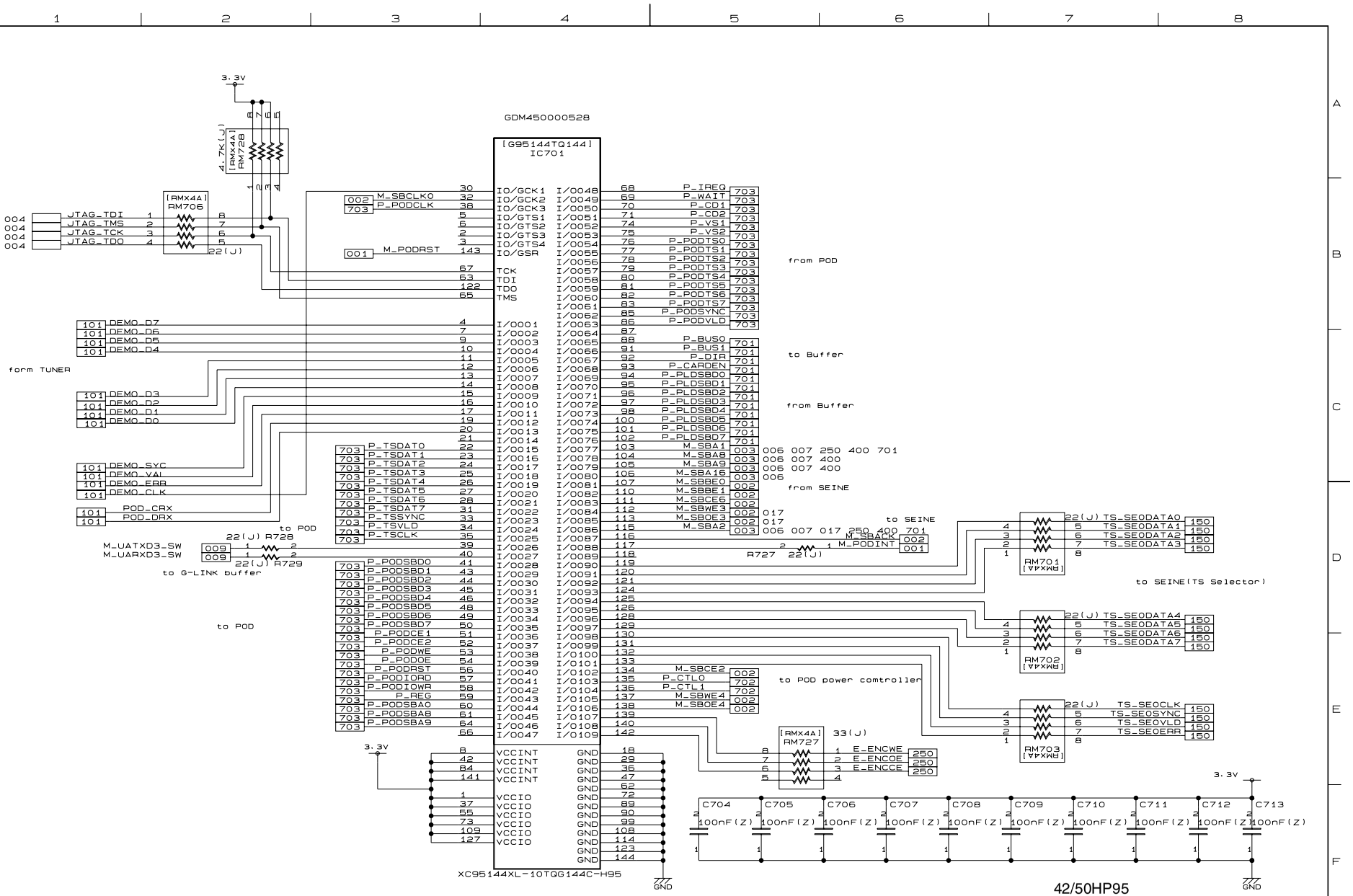
42/50HP95
SEIN FPD FULL NON LAN
MB86619

SH. NO.
400



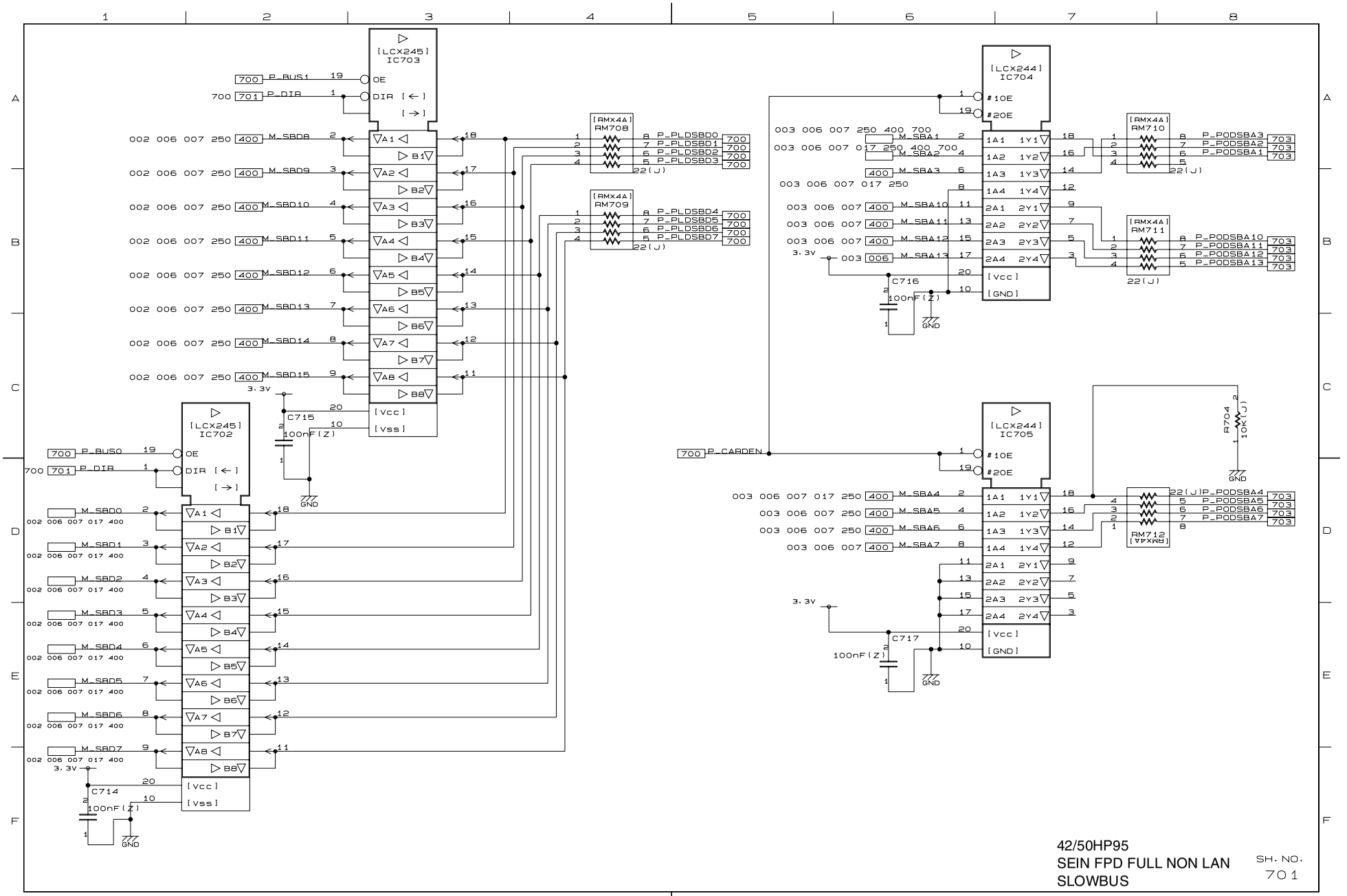
42/50HP95
SEIN FPD FULL NON LAN
MB86619 (POWER)

SH. NO.
401

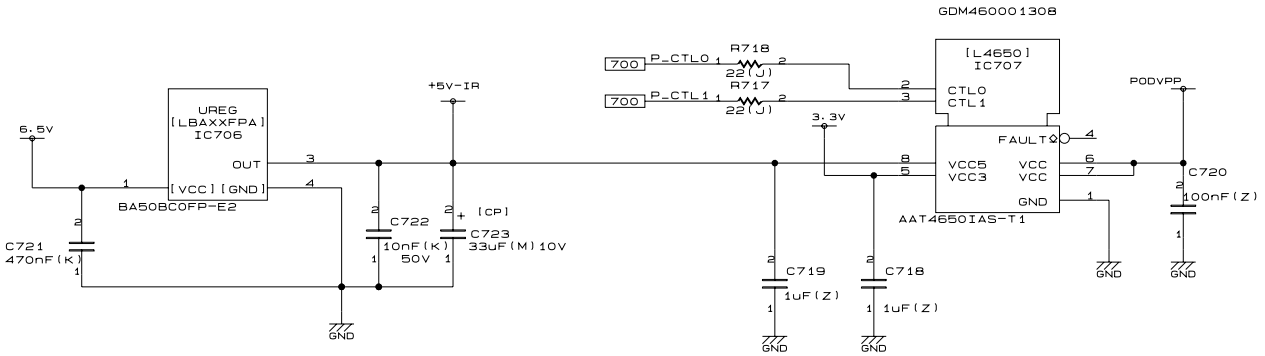


42/50HP95
SEIN FPD FULL NON LAN
CPLD XILINX

SH. NO.
700

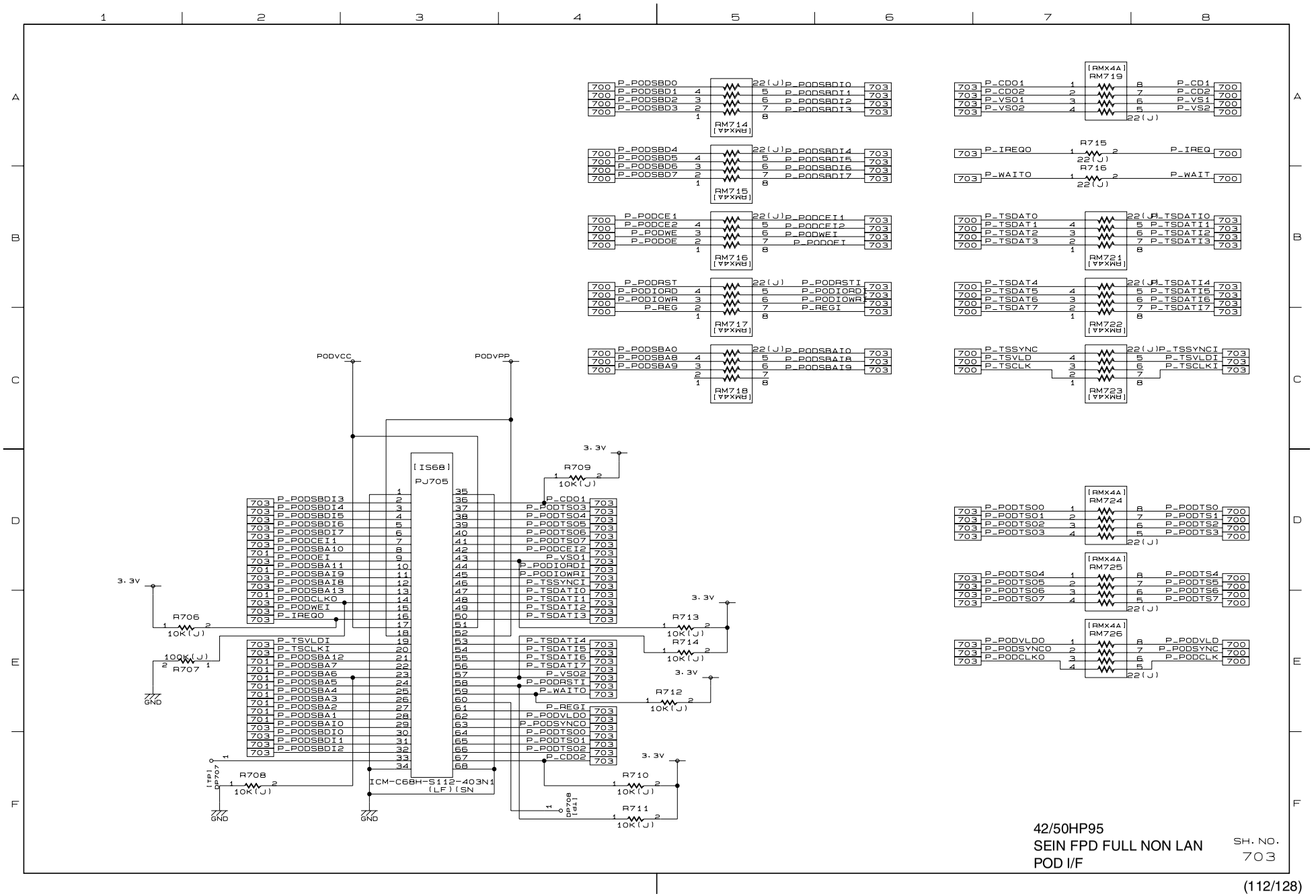

[LCX245] IC703
[LCX245] IC702
[LCX244] IC704
[LCX244] IC705
[RMX4A] RM708
[RMX4A] RM709
[RMX4A] RM710
[RMX4A] RM711
[RMX4A] RM712
P_BUS1
P_DIR
P_BUS0
P_CARDEN
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_SBD8
M_SBD9
M_SBD10
M_SBD11
M_SBD12
M_SBD13
M_SBD14
M_SBD15
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA10
M_SBA11
M_SBA12
M_SBA13
P_PLDSBD0
P_PLDSBD1
P_PLDSBD2
P_PLDSBD3
P_PLDSBD4
P_PLDSBD5
P_PLDSBD6
P_PLDSBD7
P_PODSBA1
P_PODSBA2
P_PODSBA3
P_PODSBA4
P_PODSBA5
P_PODSBA6
P_PODSBA7
P_PODSBA10
P_PODSBA11
P_PODSBA12
P_PODSBA13
C714
C715
C716
C717
R704
3.3V
GND
42/50HP95
SEIN FPD FULL NON LAN
SLOWBUS
SH. NO.
701

(110/128)



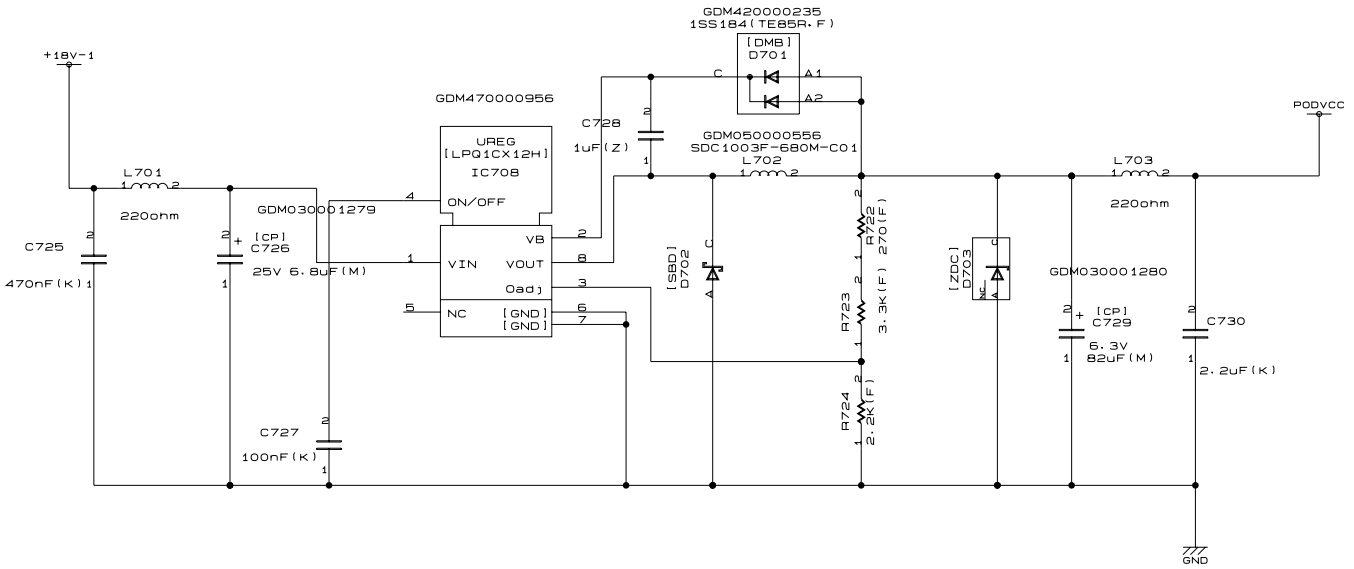
42/50HP95
SEIN FPD FULL NON LAN
PODVPP

SH. NO.
702



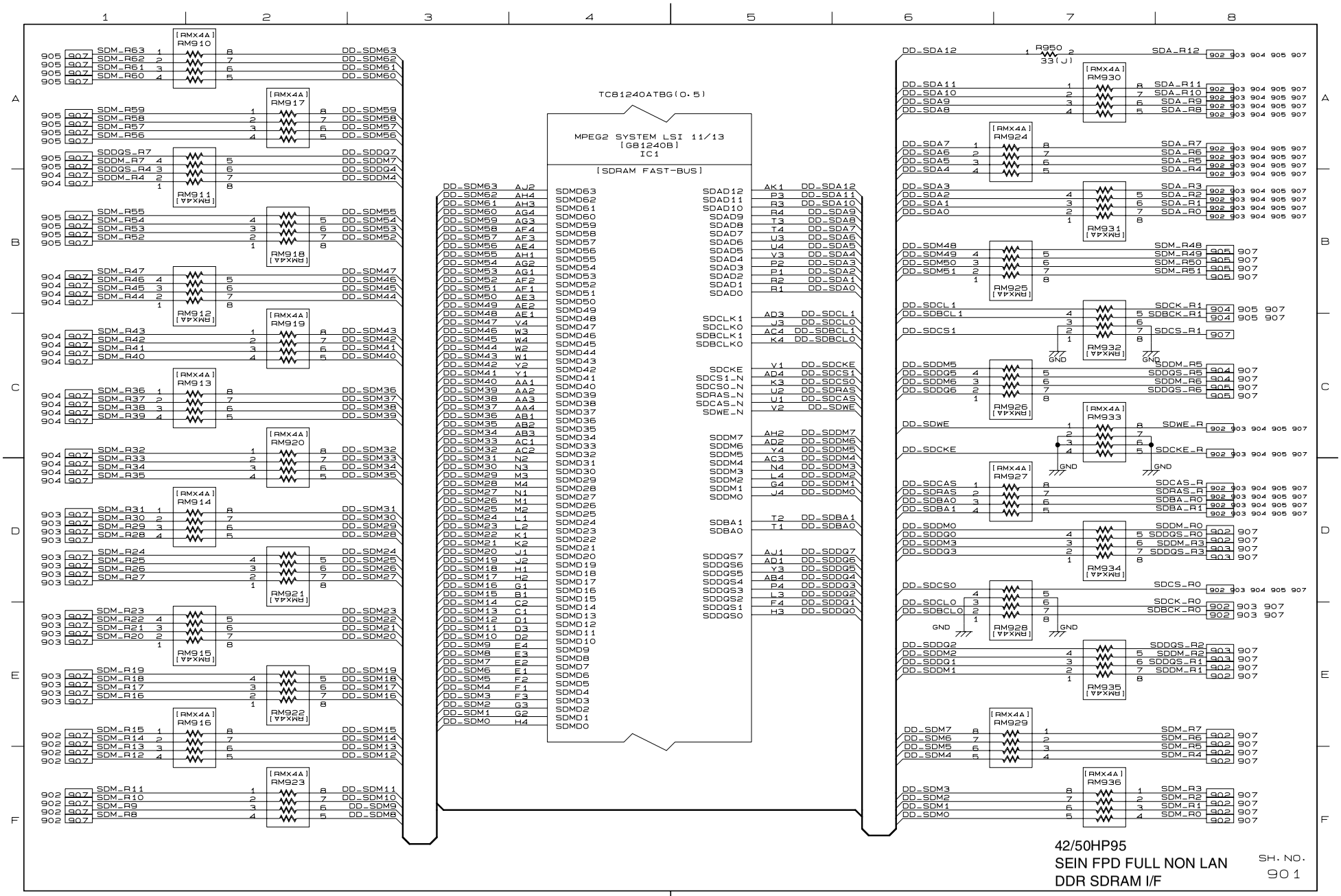
42/50HP95
SEIN FPD FULL NON LAN
POD I/F

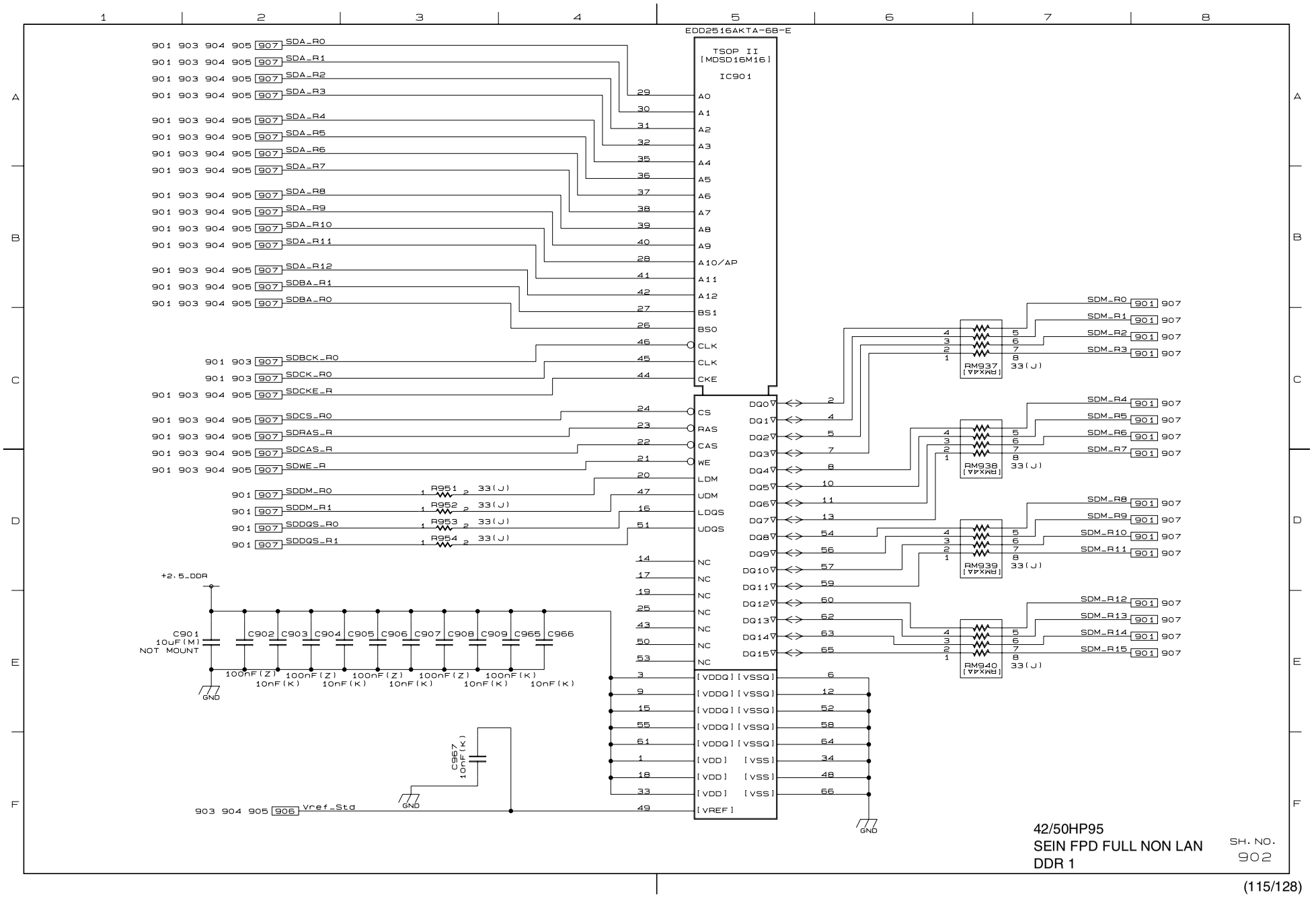
SH. NO.
703



42/50HP95
SEIN FPD FULL NON LAN
PODVCC

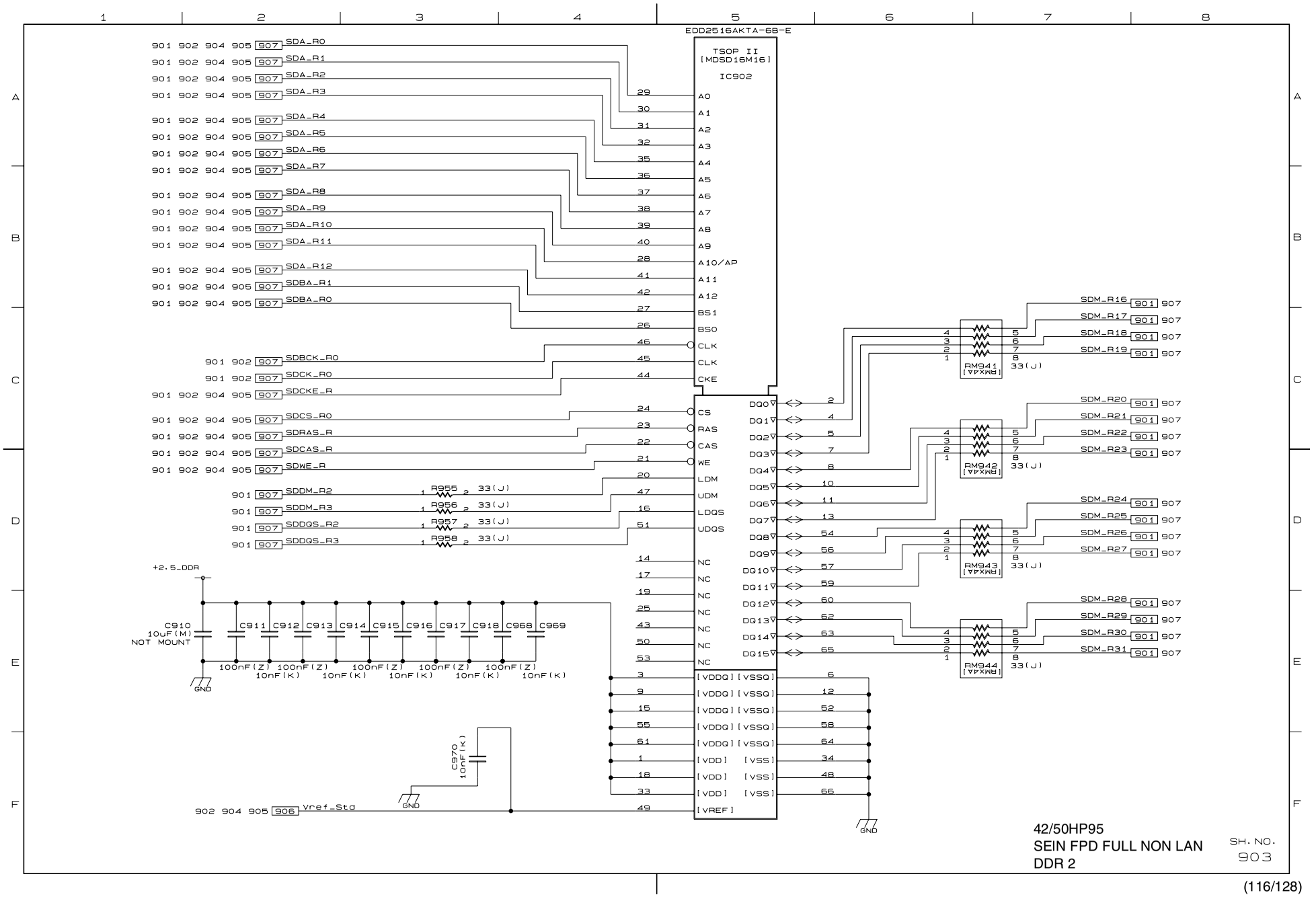
SH. NO.
704


TC81240ATBG(0.5)
MPEG2 SYSTEM LSI 11/13
[G81240B]
IC1
[SDRAM FAST-BUS]
42/50HP95
SEIN FPD FULL NON LAN
DDR SDRAM I/F
SH. NO.
901



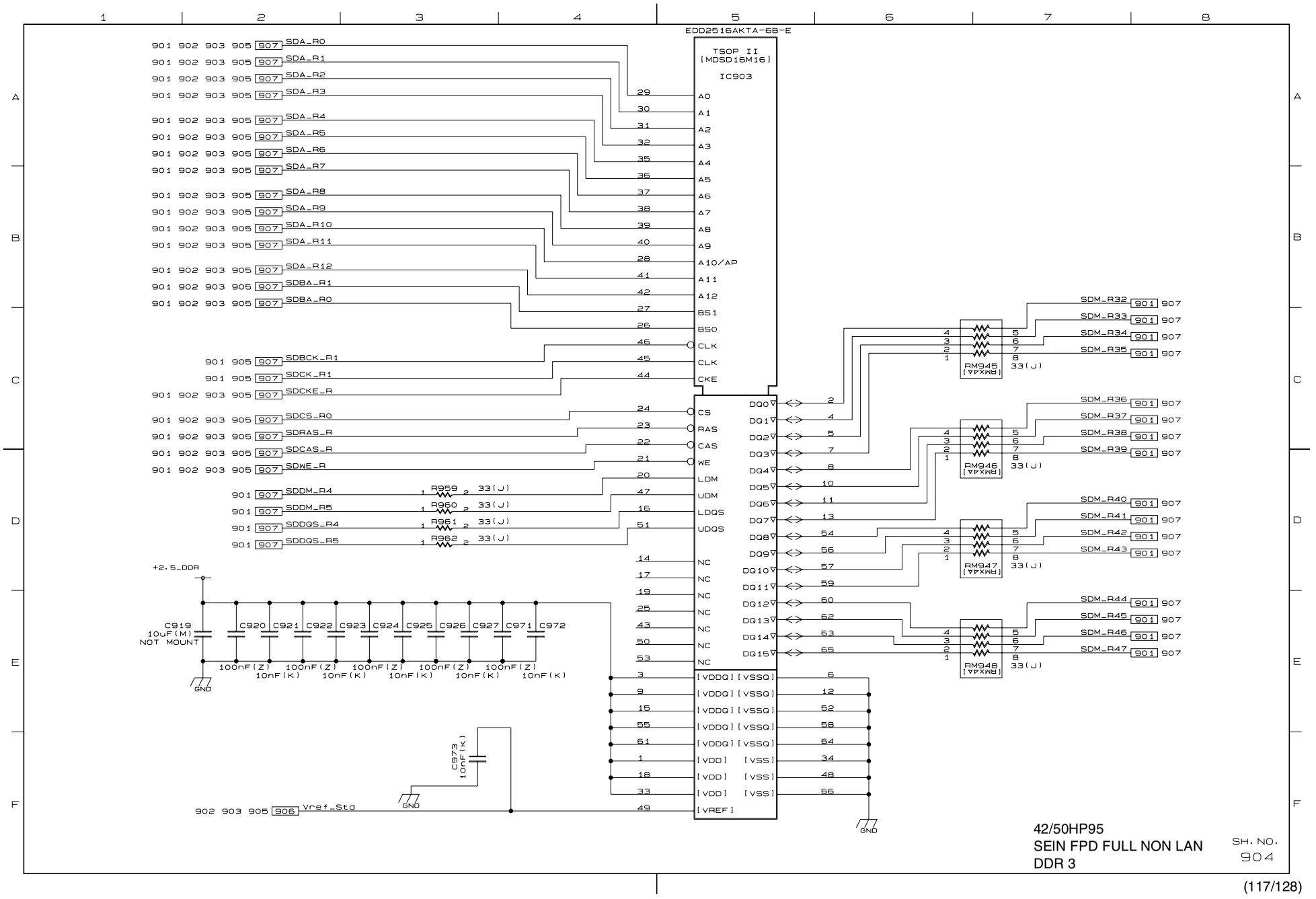
42/50HP95
SEIN FPD FULL NON LAN
DDR 1

SH. NO.
902



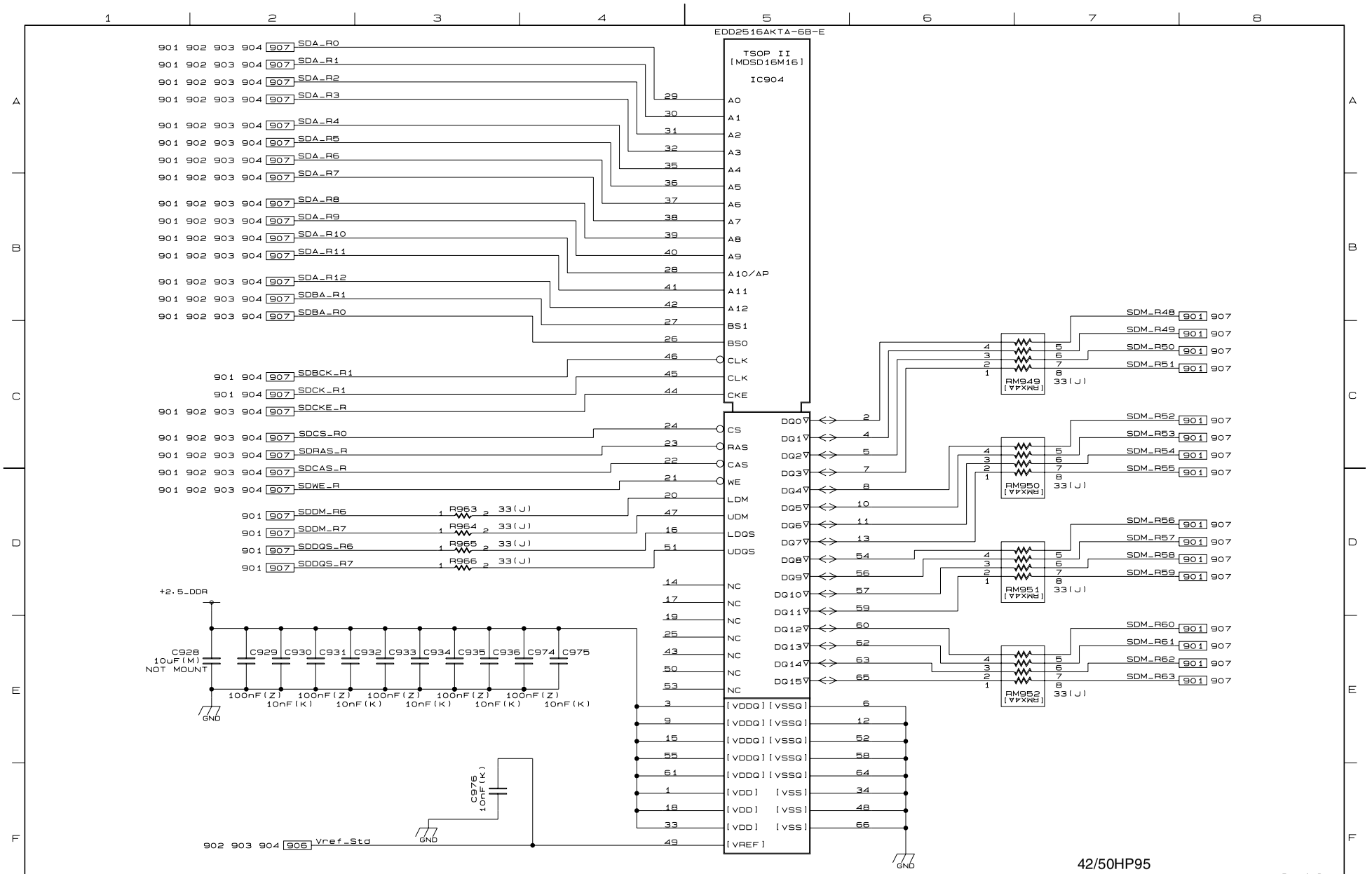
42/50HP95
SEIN FPD FULL NON LAN
DDR 2

SH. NO.
903



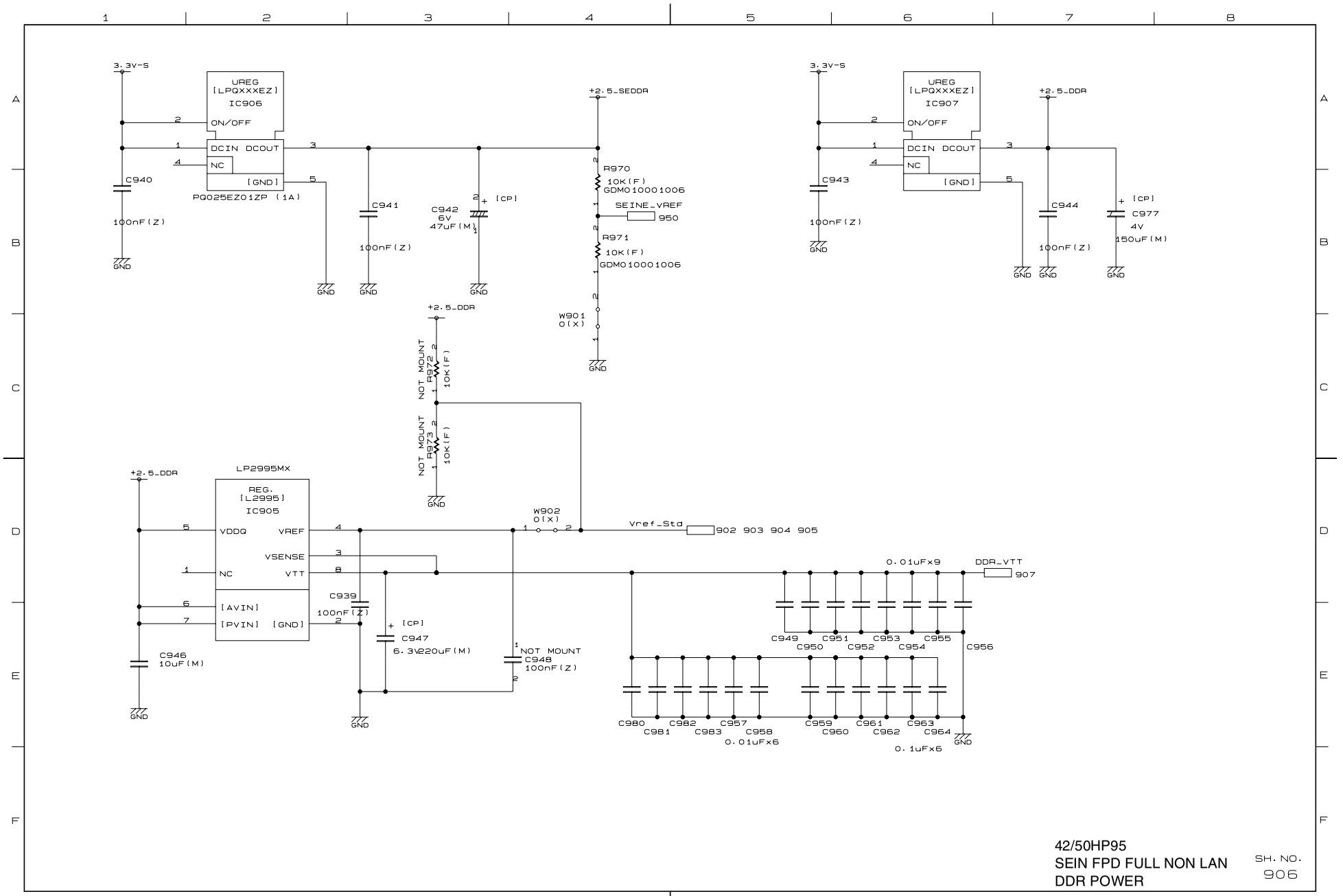
42/50HP95
SEIN FPD FULL NON LAN
DDR 3

SH. NO.
904



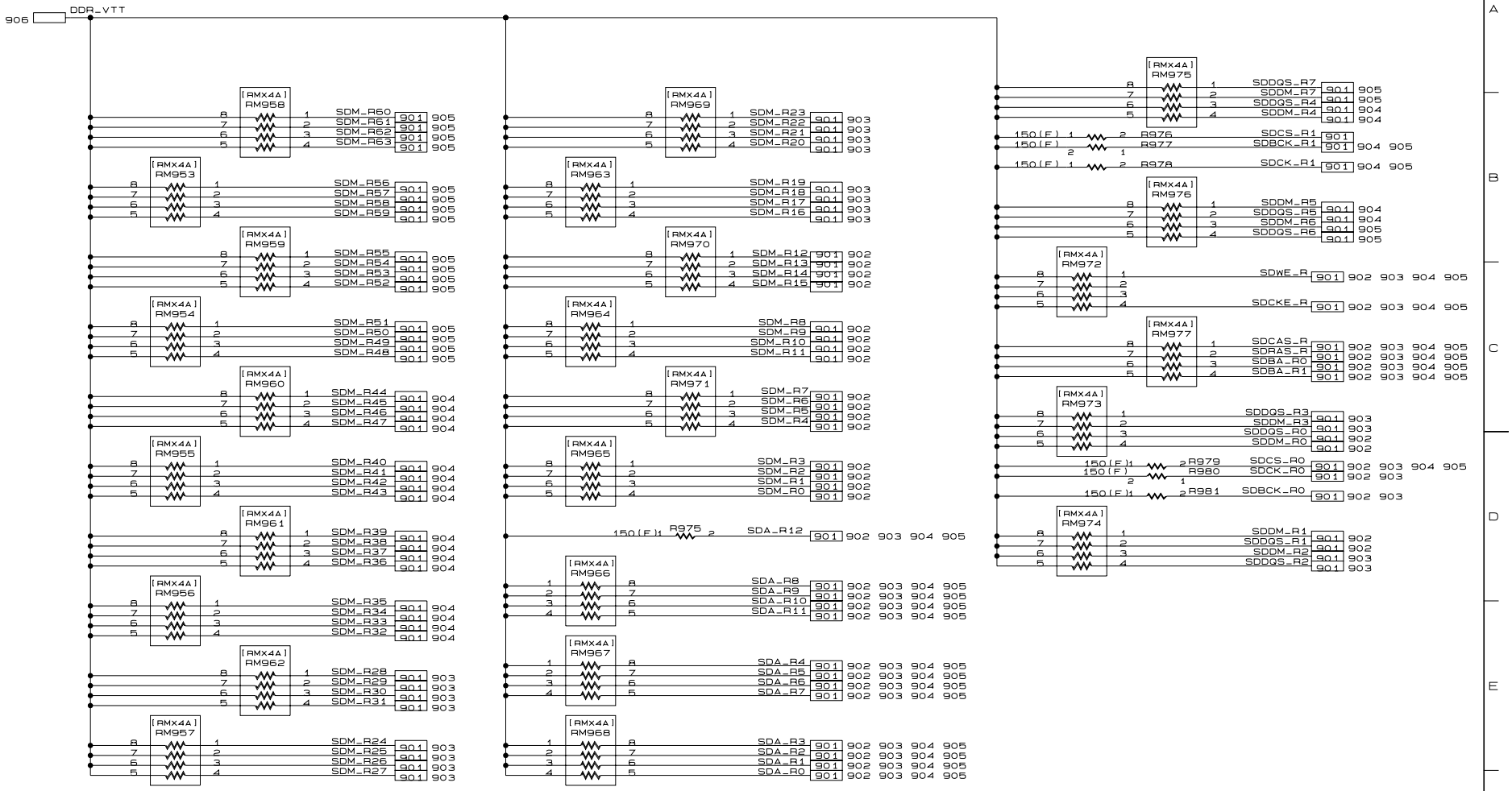
42/50HP95
SEIN FPD FULL NON LAN
DDR 4

SH. NO.
905



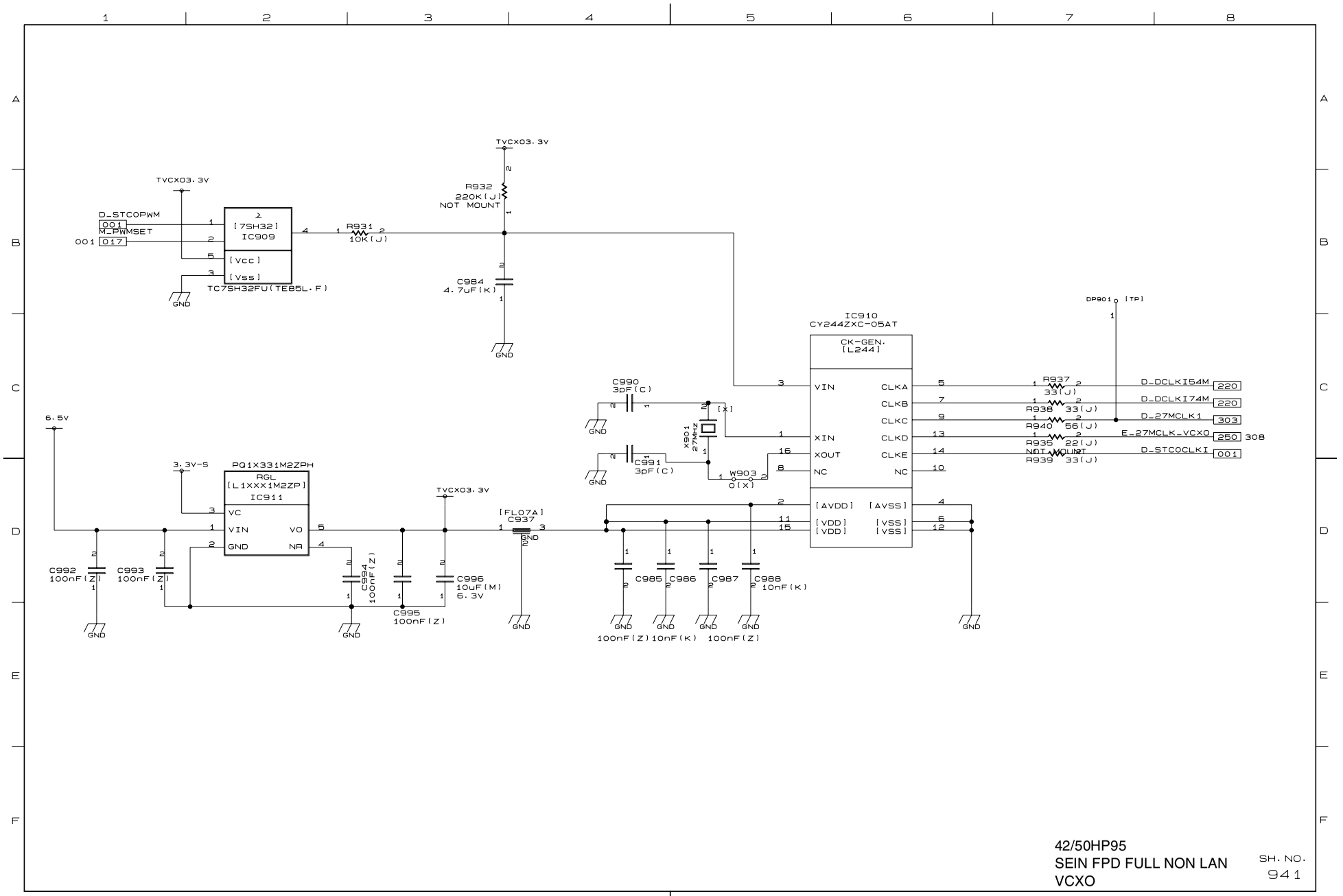
42/50HP95
SEIN FPD FULL NON LAN
DDR POWER

SH. NO.
906



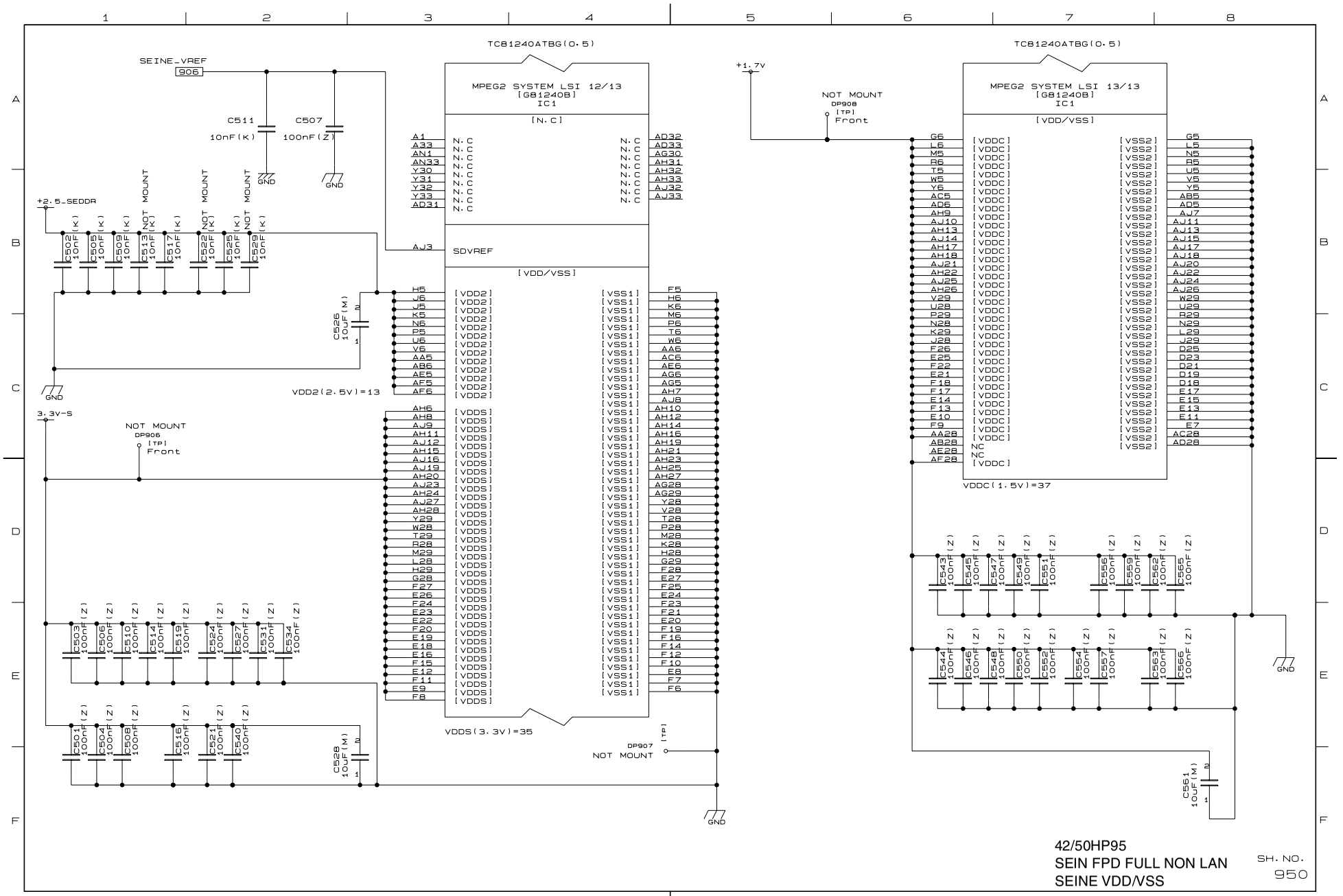
42/50HP95
SEIN FPD FULL NON LAN
TERMINATOR

SH. NO.
907



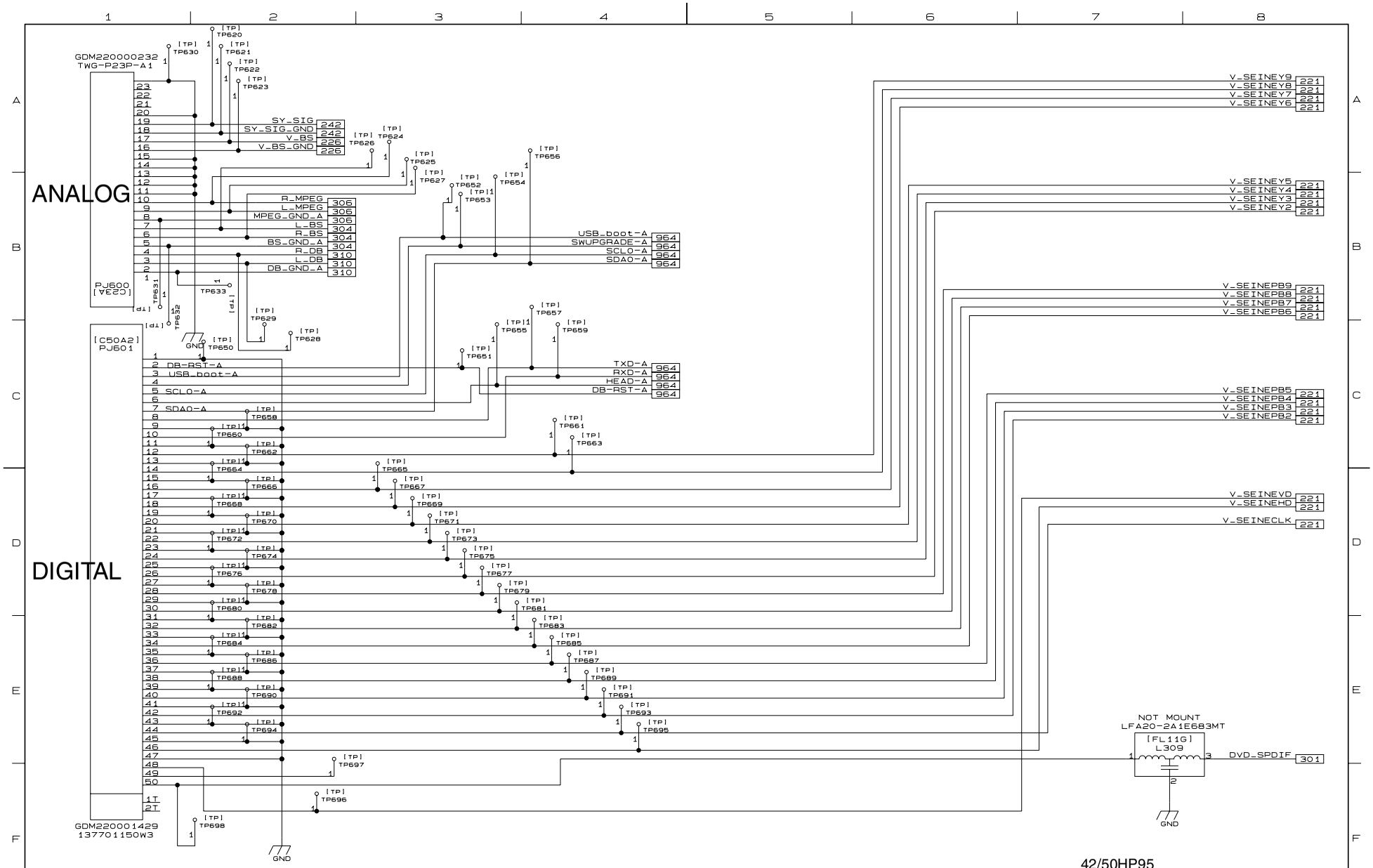
42/50HP95
SEIN FPD FULL NON LAN
VCXO

SH. NO.
941



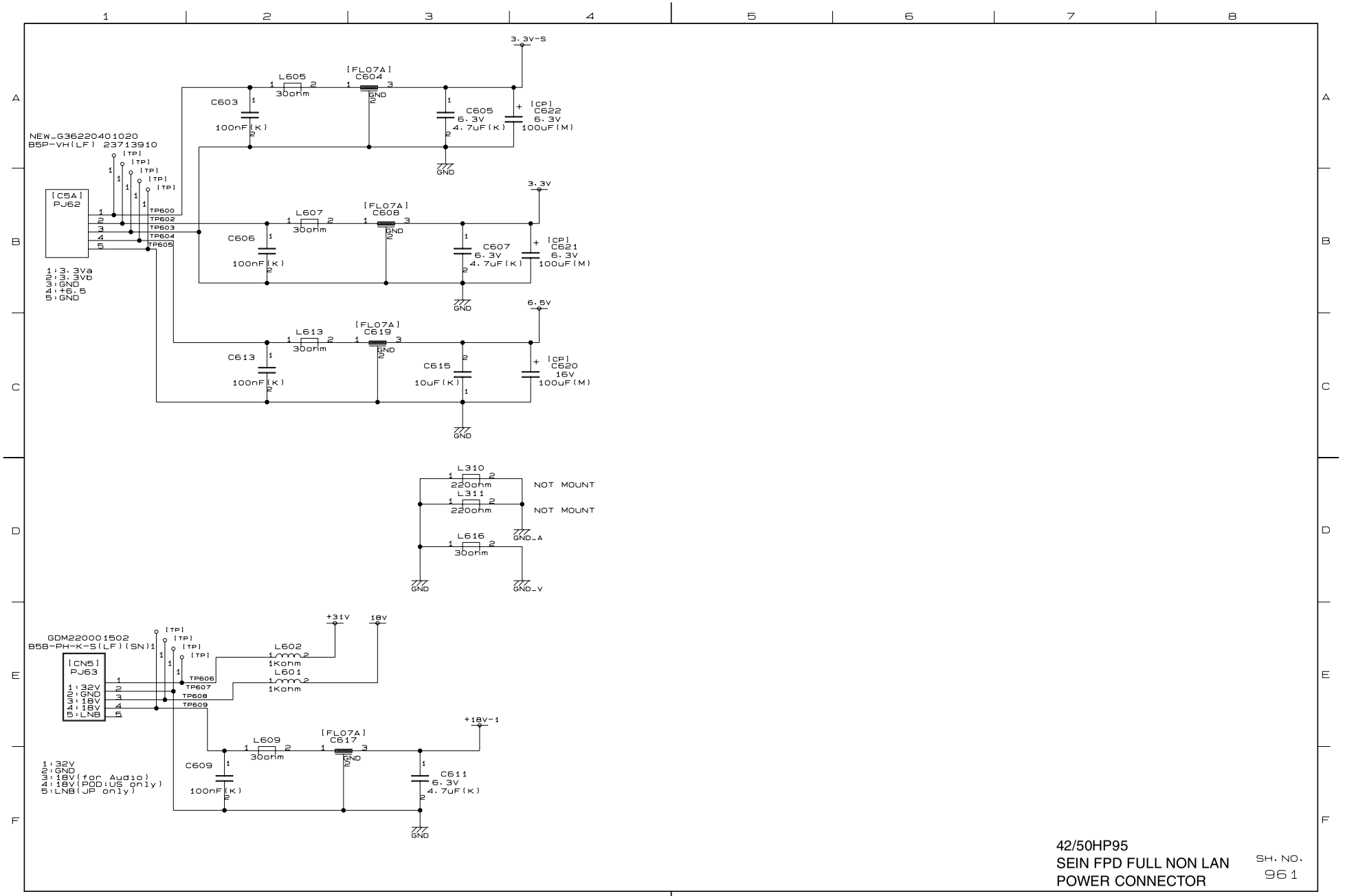
42/50HP95
SEIN FPD FULL NON LAN
SEINE VDD/VSS

SH. NO.
950



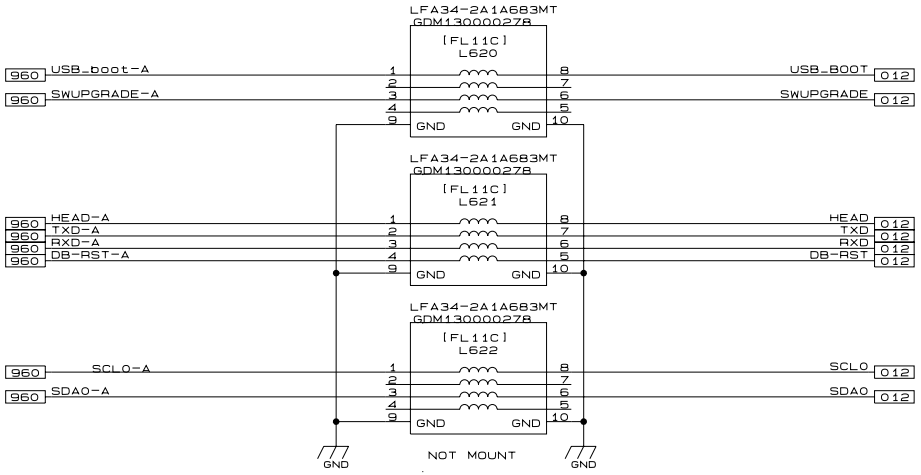
42/50HP95
SEIN FPD FULL NON LAN
SIGNAL CONNECTOR

SH. NO.
960



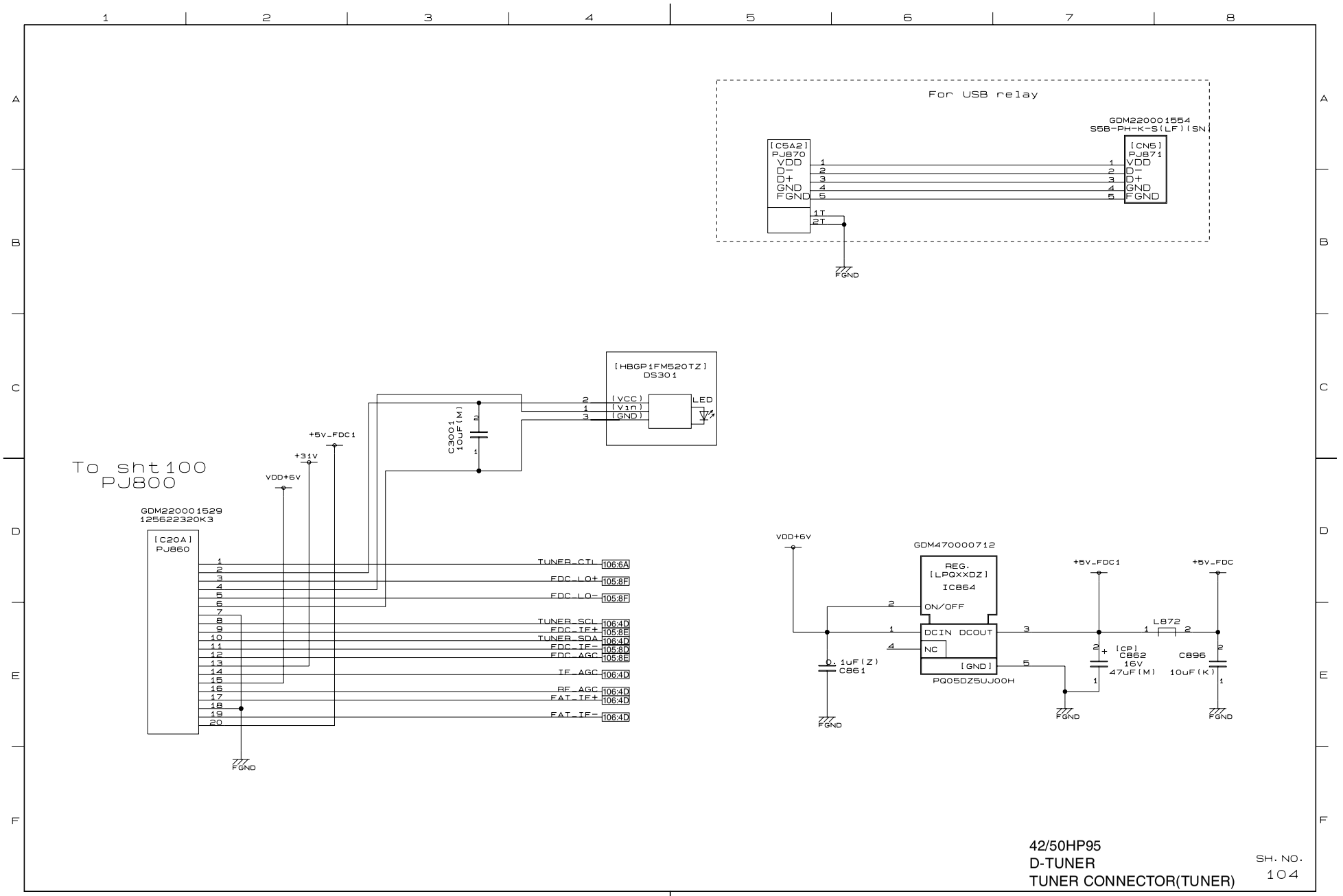
42/50HP95
SEIN FPD FULL NON LAN
POWER CONNECTOR

SH. NO.
961



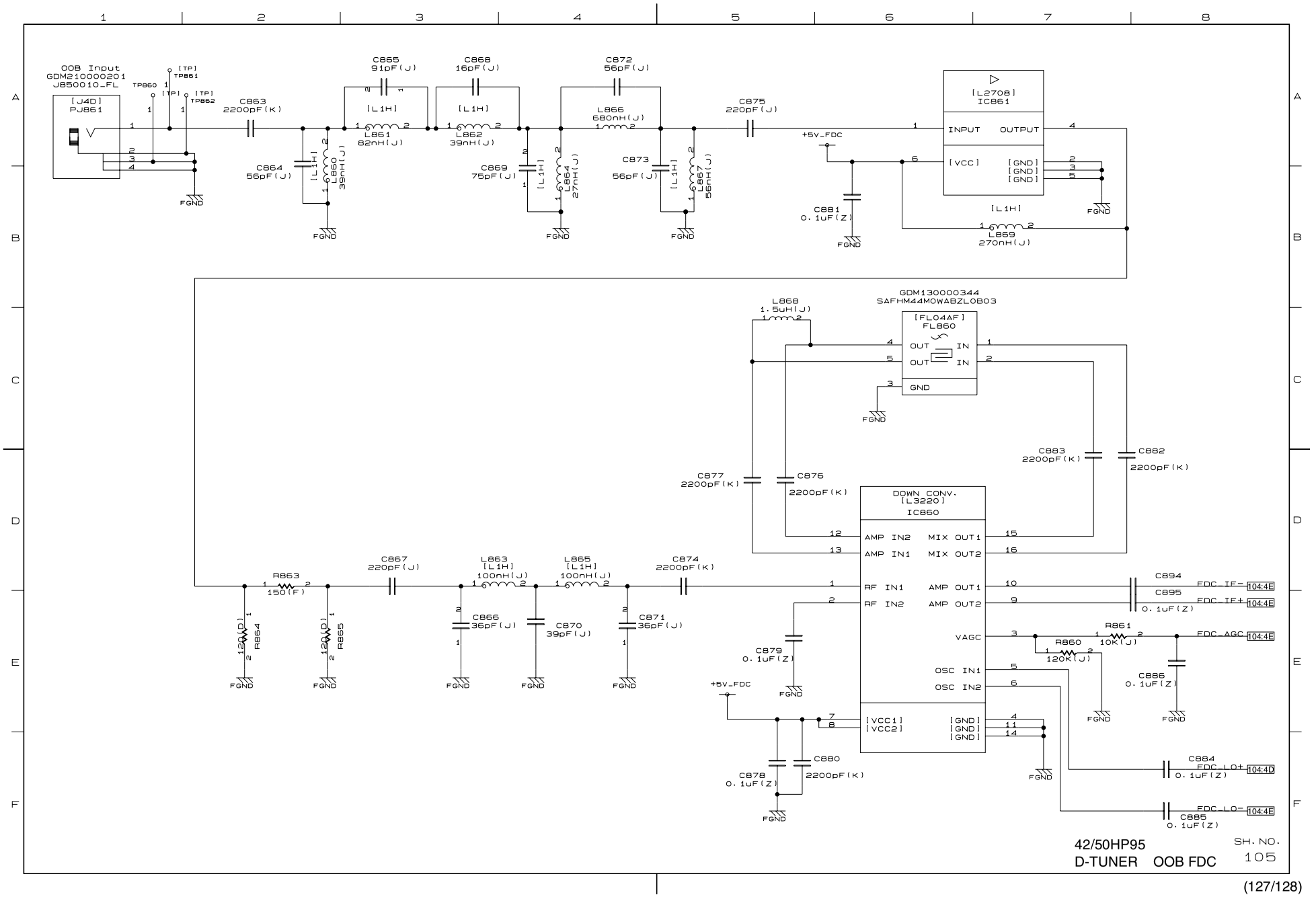
42/50HP95
SEIN FPD FULL NON LAN
Signal filter

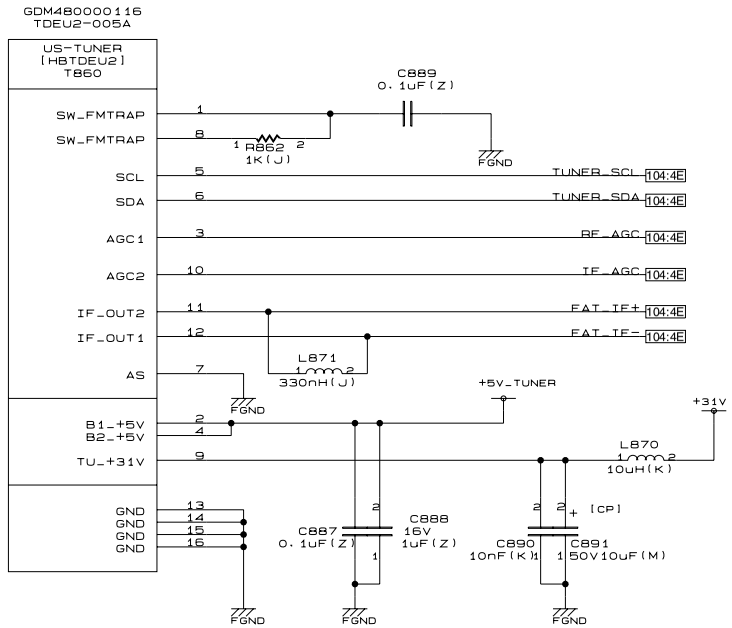
SH. NO.
964

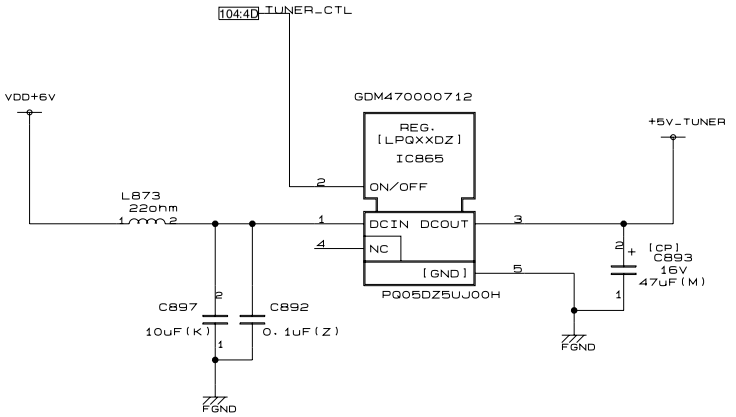


42/50HP95
D-TUNER
TUNER CONNECTOR(TUNER)

SH. NO.
104


OOB Input
GDM2100002O1
J850010_FL
[J4D]
PJ861
TP860
TP861
TP862
C863
2200pF(K)
C855
91pF(J)
C868
16pF(J)
C872
56pF(J)
[L1H]
L861
82nH(J)
L862
39nH(J)
L866
680nH(J)
C875
220pF(J)
C864
56pF(J)
L860
39nH(J)
C869
75pF(J)
L864
27nH(J)
C873
56pF(J)
L867
56nH(J)
[L2708]
IC861
INPUT
OUTPUT
[VCC]
[GND]
[GND]
[GND]
+5V_FDC
C881
0.1uF(Z)
L869
270nH(J)
FGND
L868
1.5uH(J)
GDM130000344
SAFHM44M0WABZL0B03
[FL04AF]
FL860
OUT
IN
OUT
IN
GND
C883
2200pF(K)
C882
2200pF(K)
C877
2200pF(K)
C876
2200pF(K)
DOWN CONV.
[L3220]
IC860
AMP IN2
MIX OUT1
AMP IN1
MIX OUT2
RF IN1
AMP OUT1
RF IN2
AMP OUT2
VAGC
OSC IN1
OSC IN2
[VCC1]
[VCC2]
[GND]
[GND]
[GND]
R863
150(F)
C867
220pF(J)
L863
[L1H]
100nH(J)
L865
[L1H]
100nH(J)
C874
2200pF(K)
R864
120(D)
R865
120(D)
C866
36pF(J)
C870
39pF(J)
C871
36pF(J)
C879
0.1uF(Z)
C878
0.1uF(Z)
C880
2200pF(K)
C894
C895
0.1uF(Z)
FDC_IF-
FDC_IF+
104:4E
R861
10K(J)
R860
120K(J)
FDC_AGC
C886
0.1uF(Z)
C884
0.1uF(Z)
FDC_LO+
104:4D
C885
0.1uF(Z)
FDC_LO-
104:4E
42/50HP95
D-TUNER OOB FDC
SH. NO.
105





42/50HP95
D-TUNER
FAT TUNER

SH. NO.
106

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN